
Digitized by the Internet Archive
in 2014

https://archive.org/details/b19974760M1993

THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 2617 CENTRAL (3 lines).

Established in ENGLAND, 1859.]

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in [AUSTRALASIA, 1885.

No. 1,904. Vol. LXXXVIII. JULY 22, 1916.

Subscription Rate, 12s. 6d. per annum. Single Copies, 6d. each. Winter and Summer Issues 1s. each. Post Free.

Effervescent Saline

This preparation is supplied in minute granules, and is prepared from drugs of the purest quality.

Plug-stopp'd Cheltenhams

4 oz. f.c.
6 oz. f.c.
8 oz. f.c.

Packed in Wood's plug-stoppered Cheltenhams

4 oz.
6 oz.
8 oz.

Chemists own name and address printed free on labels for goods to the value of 12/– for each preparation.



The following are the various styles which can be supplied.

Specimens of available labels and cartons forwarded on request.

Fig. 534
Fancy coloured lithograph

Fig. 535
Black and white labels, fancy coloured wrappers or cartons

Fig. 537
Coloured labels, fancy coloured wrappers or cartons

Fig. 538
Fancy coloured labels and cartons

Fig. 539
Fancy coloured lithograph

Fig. 543
Fancy coloured border series

Fig. 1640
Fancy coloured Old English series

Fig. 1644
Fancy black and white script series

Fig. 898
Fancy coloured labels and cartons

Samples on request.

Allen & Hanburys Ltd. :: London

Index to Advertisers, page 5.

Umney's Perfume Concentrates

FOR THE

INSTANTANEOUS PREPARATION

OF

CHOICEST PERFUMES

1 ounce to be added to 30 ounces of spirit.

PRICE - - 5/- OUNCE

BOUQUET	PARMA VIOLET
CARNATION	PEAU d'ESPAGNE
EASTERN BOUQUET	STEPHANOTIS
EXQUISITE	SWEET PEA
FRANGIPANNI	SWEET SULTAN
GRASSE ROSE	TRÉFLE
HYACINTH	WALLFLOWER
JASMIN	WHITE HELIOTROPE
JOCKEY CLUB	WHITE LILAC
LILY OF THE VALLEY	WHITE ROSE
LIME FLOWERS	WOOD VIOLET
OPOPONAX	YLANG YLANG

ALSO

CONCENTRATED EAU DE COLOGNE ... ... 3/- ounce

CONCENTRATED LAVENDER WATER... ... ... 3/- ounce

OF THE SAME CONCENTRATION.

WRIGHT, LAYMAN & UMNEY, LTD.

SOUTHWARK, LONDON, S.E.



PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

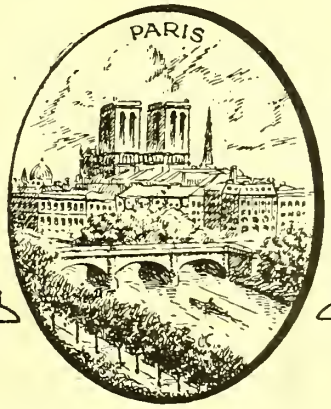
R. W. GREEFF & Co. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries

(WHOLESALE QUANTITIES ONLY)

Acetanilid
Amidopyrin
Barbitone
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cinchonine Sulphate and Muriate
Cinchonidine Sulphate
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Eucalyptus Oil—B.P. 70%
Formaldehyde
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Peppermint Oil
Pepsines, Pancreatin, Peptone and other digestive Ferments
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinine and Salts
Quinine Ethyl Carbonate
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
Tannin Albuminate
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin

R. W. Greeff & Co.

THAMES HOUSE,
QUEEN ST. PLACE,
LONDON, E. C.



MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street.
ALSO AT
NEW YORK:
R. W. Greeff & Co.,
80, Maiden Lane.

A

Let your customers know

that Euthymol Tooth Paste is British-made.

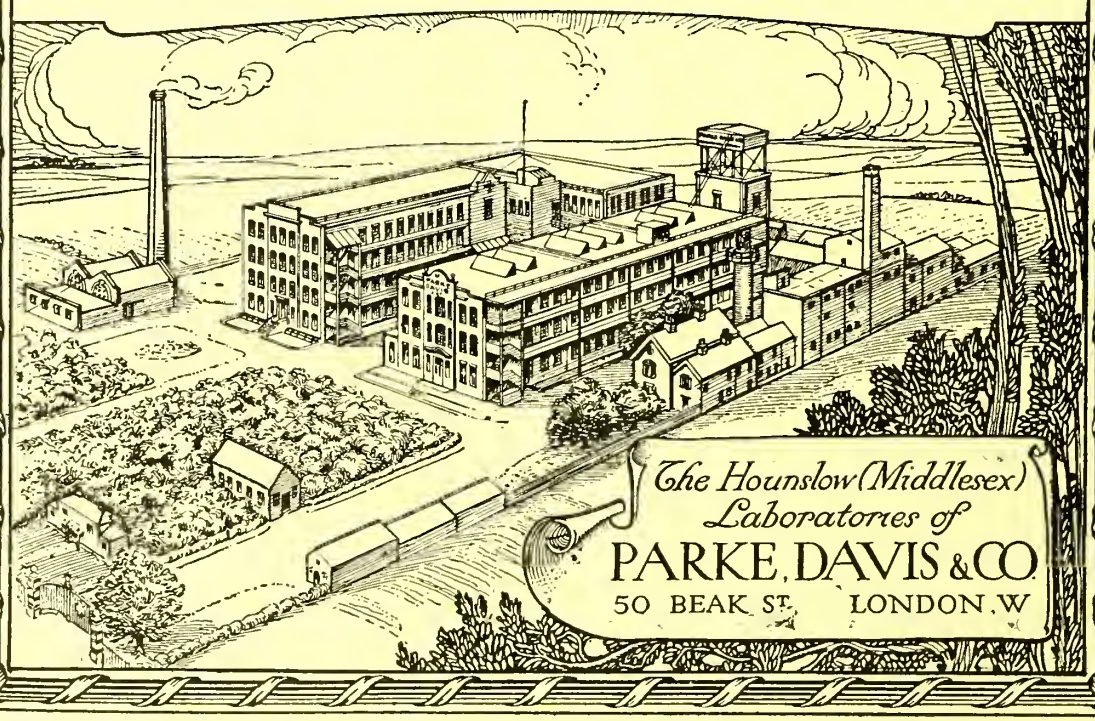
Thousands of pharmacists have visited the Laboratories illustrated below, and seen for themselves the manufacture of

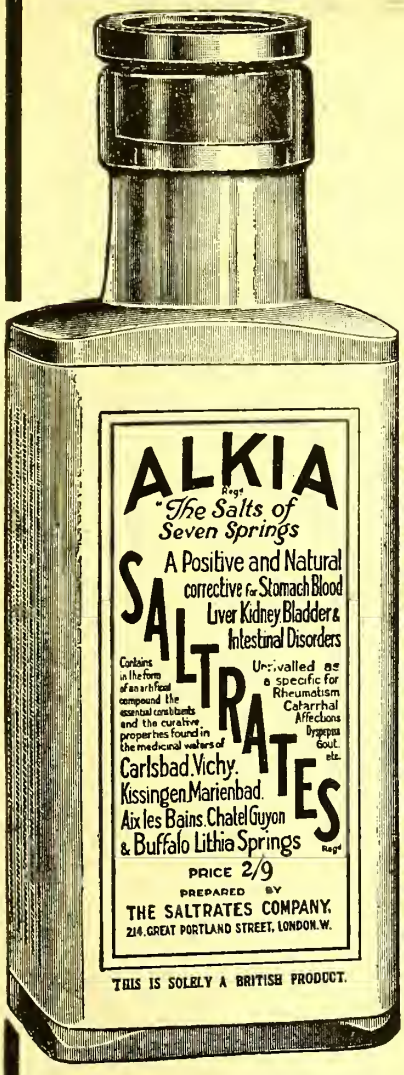
Euthymol
TOOTH PASTE

But some of your customers are ignorant of its origin, or misinformed, and it is worth while to emphasize the fact that it

is made in England.

No advance has been made in retail or wholesale prices.
Write to-day for particulars of bonus terms and advertising aids.





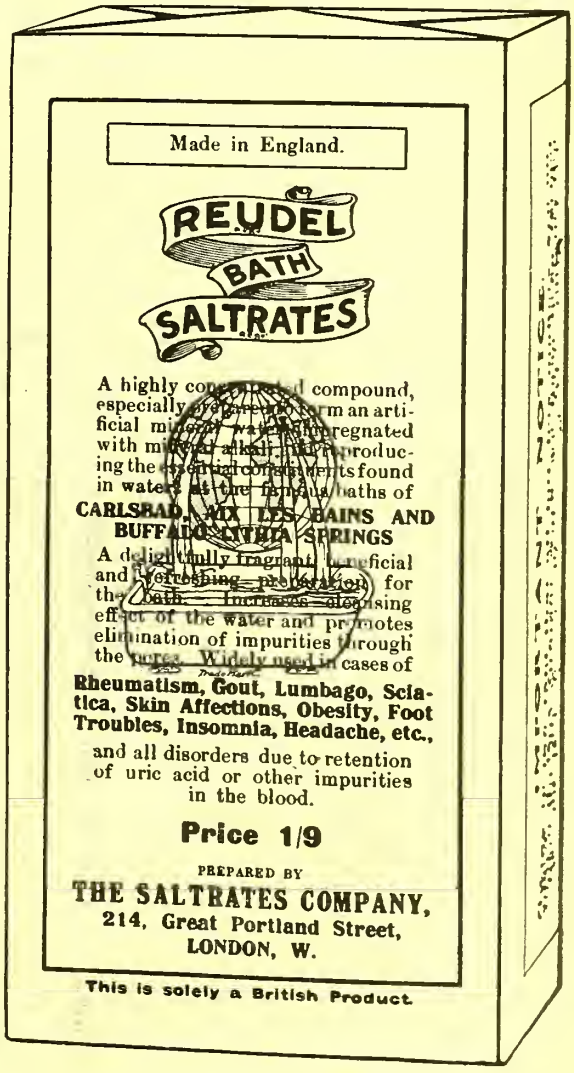
ALKIA SALTRATES

The most efficient saline on the market and best value for the money. Pleasant tasting and always pleases the user.

A widely advertised line which you can recommend with absolute confidence.

Sells at **2/9** a bottle (P.A.T.A.)

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted.



REUDEL BATH SALTRATES

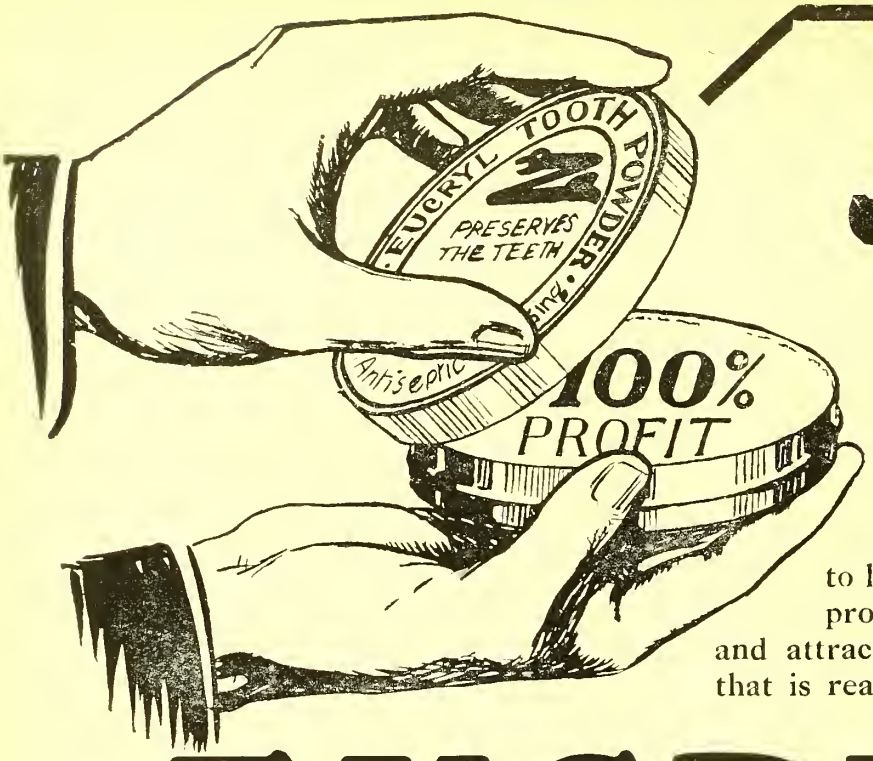
The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath. Now being extensively advertised.

Sells at **1/9** and **2/9** (P.A.T.A.)

KALSEL

An especially strong but pleasant-tasting effervescent saline for severe and chronic constipation.

Sells at **1/9** a bottle (P.A.T.A.)



It will pay you

to look into the EUCRYL proposition, for it is sound and attractive business—business that is really worth while.

EUCRYL

TOOTH POWDER

nets you 100% profit. We venture to say that no other dentifrice of a similar character offers you so profitable a return, and Eucryl is British, remember! Therefore display Eucryl boldly on your counter — tell your assistants to bring it forward—as the Public prefer to take British goods when British goods are offered them.

Fill in the attached Coupon at once, and participate in the 100% bonus terms.

EUCRYL LIMITED, 61-63 LANT STREET, SOUTHWARK, S.E.

ORDER COUPON

To **EUCRYL LIMITED,**
61-63 Lant Street,
Southwark, S.E.

Please send 6 dozen 6d. tins Eucryl Tooth Powder, at 3/6 dozen net, **carriage paid,** together with 2 dozen 6d. tins extra and free of charge as bonus, for which I enclose remittance value 21/-.

C. & D., July 22, 1916.

INDEX TO ADVERTISERS IN THIS ISSUE.

the Advertisements following the literary pages are numbered in Roman numerals (i to xii).

For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1916.

ERATORS, Ld., Prana Sparklets 6
LLCOOK MANUFACTURING CO., Plasters, &c 20
LLEN & HANBURYS, Ld., Packed Goods .....Cover
LLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals xi
NGLO-FRENCH DRUG CO., Ld., French Proprietaries, Salvarsan Substitutes, Hypodermic Syringes 29
SIATIC PETROLEUM CO., Ld., Paraffin Wax 23
YRTON GRAHAM, Ld., Window Fittings 12

BAILEY, ROBERT, & SON, Gauzes, Surgical Dressings 20
BAISS BROS. & STEVENSON, Ld., Drugs, Chemicals 25
BAKER, PARSON C., Chemists' Valuer .....Col. Supp.
BARKER, R., & SON, Infants Preservative ix
BECKER, SHILLAN & CO., Epsom Salts..... vi
BEECHAM, THOMAS, Pills x
BENGER'S FOOD, Ld., Foods 32
BERDOE & FISH, Chemists' Valuers, Transfer Agents Col.Supp.
BLACKIE, ROBERT, Ointments, &c. 28
BLYTHE, W., & CO., Ld., Epsom Salts, Zinc Sulphate ii
BOEHM, F., Ld., Chemicals, Olive Oil, Essential Oils.... 23
BOWLEY, S., & SON, Parasiticides..... x
BRETT & CO., Chemists' Valuers, Transfer Agents Col. Supp.
BRITISH DIAMALT CO., Foods vi
BRITISH MILK PRODUCTS CO., Ld., Foods 9
BRITISH ORGANOTHERAPY CO., Ld., Organotherapeutic Preparations vii
BRITISH PASTEUR-CHAMBERLAND FILTER CO. 8
BROOKS, TOM, Recipes 13
BROWNING, W., & CO., Emulsions, Paraffin Liq. 10
BRUNNER, MOND & CO., Ld., Alkalies, Heavy Chemicals .....Cover
BURGE, WARREN & RIDGLEY, Ld., India-Rubber Goods, Air Cushions, Anti-Rheumatic Rings..... 21
BURROUGH, J., Ld., Absolute Alcohol ..... Text
BURROUGHS WELLCOME & CO., 'Tabloid' Preps,.. 31
BUTLER, E. H., & SONS, Acetanilid x

CHATELAIN, J. L., French Medicinal Proprietaries..... i
CHESTER, A. D., & CO., Ld., Chemicals ii
CHRISTY, T., & CO., Toilet Articles, Tartar Remover, &c. 19,32
COOPER, SON & CO., Ld., Cachets..... 18
CUXSON, GERRARD & CO., Ld., Druggists' Sundries 16

DAVENPORT, J., Ld., Chlorodyne xii
DAVIES, SONS & CO., Malt Extracts, Packed Goods 5
DE ROOS, JOHNSON & CO., Medicinal Proprietaries .. 27
DUNCAN, FLOCKHART & CO., Chloroform, Ethers, Bacterial Vaccines, Galenicals iii

EDGE, W., & SONS, Ld., Cleansers 10
ELBIE DUSTER CO., Dustless Dusters 18
EUCRYL, Ld., Dentifrices 4
EVANS SONS LESCHER & WEBB, Ld., Chemicals, Pharmaceuticals, Druggists' Sundries, Serums, Insect Killer, Capsules, Lysol 22, 28
EWEN, J., & SONS, Lard 9

FABRA CO., Ld., Chemicals ii
FARMER, F., & CO., Vermin Killers 18
FAULDING, F. H., & CO., Emulsions, Soaps vii
FELLOWS' MEDICAL MFG. CO., Medicinal Syrups .. 27
FINK, F., & CO., Gums..... 18
FLETCHER, FLETCHER & CO., Ld., Liquors .....Text
FLOREY, HARTLEY, Chemicals vii
FRAME FOOD CO., Ld., Foods 9
FUERST BROS., Chemicals (Pure and Technical) ii

GARDNER, W., & SONS (Gloucester), Ld., Grinding and Mixing Machinery 27
GOWER, JOHN, Books (Secondhand, &c.) .....Col. Supp.
GREEFF, R. W., & CO., Chemicals (Fine and Technical) i

HALDER, E. C., Dental Mechanics 18
HALL FORSTER & CO., Ld., Toilet Articles x
HAMMETT, F., Safety Razor Blades 9
HARKER, C. R., STAGG & MORGAN, Ld., Hair Dyes, Packed Goods, Galenicals 23
HARVEY & CO. (Dublin), Ld., Veterinary Medicines .. 24
HENRY, T. & W., Calcined Magnesia vii
HERB GROWING ASSOCIATION 26
HEWLETT, C. J., & SONS, Ld., Pharmaceutical Preps. viii
HEYMANN, H., Chemicals..... 18
HILLCREST OIL CO. (Bradford), Ld., Lanoline 30
HOLLANDSCHE MELKSUIKERFABRIEK, Milk Sugar vi
HOMMEL'S, Dr., Haematogen ix
HOYLE, J. & T., & CO., Aniline Dyes 18
HUISKING, C. L., American Drugs, Chemicals, &c. iv

INGRAM, J. G., & SON, Indiarubber Goods, Teats, &c. 20
ISAACS, I., & CO, Medical Glassware 19

JACKSON, ERNEST, & CO., Liquorice Tablets, Lozenges 26
JOB BROS. (Newfoundland), Cod Liver Oil 13
JOSEPHS, PHILIP, & SONS, Ld., Shopfittings ..Col. Supp.

KAY BROS., Ld., Cements, Flycatchers, Proprietaries 22
KENT, G. B., & SONS, Ld., Brushware (all kinds) 21
KIDSTON, W. M., & Co., Gums, Petroleum Jellies viii
KIRBY, H. & T., & CO., Ld., Pills and Tablets 32
KNIGHT & PARTNERS, Ld., Auctioneers .....Col. Supp.
KRASKA CO., Toilet Articles 24

LAZARD-GODCHAUX CO., Ld., Chemicals, Dyestuffs vi
LEVERMORE, A., & CO., Ld., Chalk (Precipitated) .. 18
LEWIS, H. K., & CO., Ld., Medical Books..... 12
LINCOFF, I., Russian Agencies iv
LOFTHOUSE & SALTMER, Ld., Foods, Asthma Cure 8
LUDY & CO., Silver Salts, Tannin Preps. 18
LUMLEY & CO., Ld., Soda Fountains 7

M'GLASHAN, D., Fruit Drink 19
McKESSON & ROBBINS, Capsuled Pills, Dentifrices .. v
McNAIR, A., & CO., Rectified Spirit, Absolute Alcohol.. 18
MALLINCKRODT CHEMICAL WORKS (Canada) Ld. iv
MARKT & CO. (London), Ld., Rubber Sponges 14
MAW, S., SON & SONS, Druggists' Sundries, Packed Goods, Surgical Instruments, Vacuum Flasks 11
MELIN, C., Glassware 27
MILLAR, A., & CO., Ld., Orange Quinine Wine 8
MILNE, P. H., CO., Ointment x
MITCHELL, N. W., & SONS, Ld., Chemists' Corks..... 26
MOIZO, DR. GIUSEPPE, Cream of Tartar 26
MONSANTO CHEMICAL WORKS, Glycerophosphates.. v
MULFORD, H. K., CO., Bacterins, Serums i
MUMFORD, G. S., & SONS, Starch Powder, Linseed Text
MUNN, W. A., Cod Liver Oil .....Text

NALBOROUGH & SONS, Ld., Milk Sugar ix
NEWBALL & MASON, Botanic Drugs, Herb Extracts.. 15

PARKE, DAVIS & CO., Dentifrices, Packed Pharmaceuticals, Serums, Tablets 2
PEARSON, E. T., & CO., Salicylic Acid 27
PETRI BROS., Chemicals ix
PEXTON, CHATHAM, Photo Development 13
PHARMACEUTICAL LANOLINE CO., Lanoline..... viii
PICERNO, V. A., Chemicals ii
PICKARD, IVE & RANKIN, Ld., Acetyl-Salicylic Acid 24
PILLISCHER, J., Clinical Thermometers 24
PODMORE, B., & CO., Files, &c. 18
PRESTON'S LIVERPOOL DISTILLERY CO., Ld., Methylated and Rectified Spirits 8

RADIUM SALT CO., Bath Salt 18
RANDALL & SON, Ld., Methylated Spirit 24
RAWORTH, J. E., Patent Agent..... 18
RENDELL, W. J., Pessaries 19
RESINOL CHEMICAL CO., Medicinal Proprietaries .. iii
RILEY BROS., Ld., Bath-Cabinets 19
ROYAL PHARMACEUTICAL LABORATORIES, Absolute Alcohol 26
RUBECK, H., Essential Oils, Saffron, Thymol ....Text
RUDDUCK & CO., Chemists' Shop Fittings .....Col. Supp.

SALTRATES CO., Bath Salts 3
SANITAS CO., Ld., Disinfectants ..... Text
SCHELLER, EMIL, & CO., Chemicals (Swiss) vii
SCHOOL OF PHARMACY 12
SESSIONS W., Parcel Seals 19
SHADEINE CO., Hair Dyes 19
SINGLETON & COLE, Ld., Tobacco and Cigars..... 18
SMITH, J. H., & CO., Fly Catchers 22
SMITH, T. & H., Ld., Alkaloids, Resins & Resinoids 29
SOLAZZI, Liquorice..... 8
SOUTH OF ENGLAND SCHOOL OF PHARMACY . 16
SPENCER, ISAAC, & CO., (Aberdeen), Ld., Cod Liver Oil viii
STANDARD TABLET & PILL CO., Ld., Pills, Tablets Cover
STERN SONNEBORN OIL CO., Ld., Petroleum Jelly 23
STEVENSON, H. E., & CO., Disinfectants, Zinc Oxide 17
STIPENDUM STOPPER CO., Boxes, Stoppers..... 21
STOKES, C. A., & CO., Ld., Shaving Sticks 18
STRONG, CHRISTY, Fly-Catchers 22

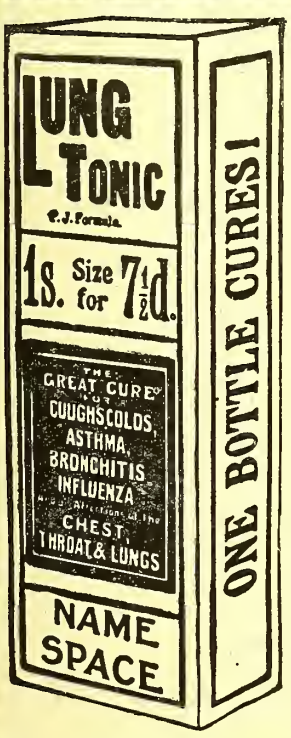
THERMOS, Ld., Vacuum Flasks 15
THORNLEY, S., Ld, Methylated Spirit 26
TOMLINSON, THOS., & SON, Chemists Valuers..Col. Supp.
TOMODA & CO., Japanese Products iv
TOOGOOD, W., Ld., Druggists' Sundries 14

UNIVERSITY OF BIRMINGHAM..... 12

VAN HORN & SAWTELL, Surgical Ligatures 18
VISCOSE CO., Ld., Bottle Cappings..... 21

WAIDE, THOS., & SONS, Chemists' Printing 13
WASHINGTON CHEMICAL CO., Ld., Magnesia & Salts vii
WHIFFEN & SONS, Ld., Emetine Salts, Quinine, &c... vii
WHITAKER & CO., Hat Dyes 16
WHITE TAR COMPANY, Disinfectants v
WHITTAKER, ARTHUR, Essential Oils 23
WRIGHT, LAYMAN & UMNEY, Ld., Coal Tar Specialities, Perfumery Materials .....Cover

ZEE-KOL MANUFACTURING CO., Skin Cure 26



A PROFITABLE SPECIALITY

BEARING YOUR OWN NAME

LUNG TONIC

FREE Window Slips
FREE Showcards
FREE Delivery
FREE Packages
FREE Sample
NAME on Label
NAME on Carton

P. J. Form., therefore no stamps required. Known, admitted, and approved.

Profit over 100%, and nothing to do but hand it over the counter. Makes an effective Window Show. — Quick seller. Sure repeats. —

Two Sizes, selling at 7½d. and 1/3.

Write for new scale of prices according to quantity ordered.

Davies, Sons & Co

Manufacturing Chemists, THE BRIDGE STREET, DERBY.

Apply for Prices for

PILLS, CAPSULES, TABLETS, AND OTHER OWN NAMED PACKED LINES.

"PRANA" SPARKLETS

PRESENT PRICES TO THE PUBLIC:

"C" size Syphon - - 5/6. "B" size Syphon - 4/-
"D" Bulbs (per dozen) 2/6 "B" Bulbs (per dozen) 1/8

"D" BULBS REFILLED AT 1/9 PER DOZEN.

IMPORTANT NOTICE TO THE TRADE.

¶ Every empty "D" Bulb returned to be re-filled saves the making of a new Bulb at our Works, and consequently economises both time and material for the production of ammunition.

¶ THE TRADE IS URGENTLY REQUESTED TO ASSIST US IN SUPPLYING MILITARY REQUIREMENTS BY FORWARDING TO OUR WORKS AT ONCE ALL EMPTY "D" BULBS RETURNED BY USERS IN EXCHANGE FOR NEW ONES, & BY REMINDING CUSTOMERS THAT THESE EMPTY BULBS ARE WORTH 9d. DOZ.

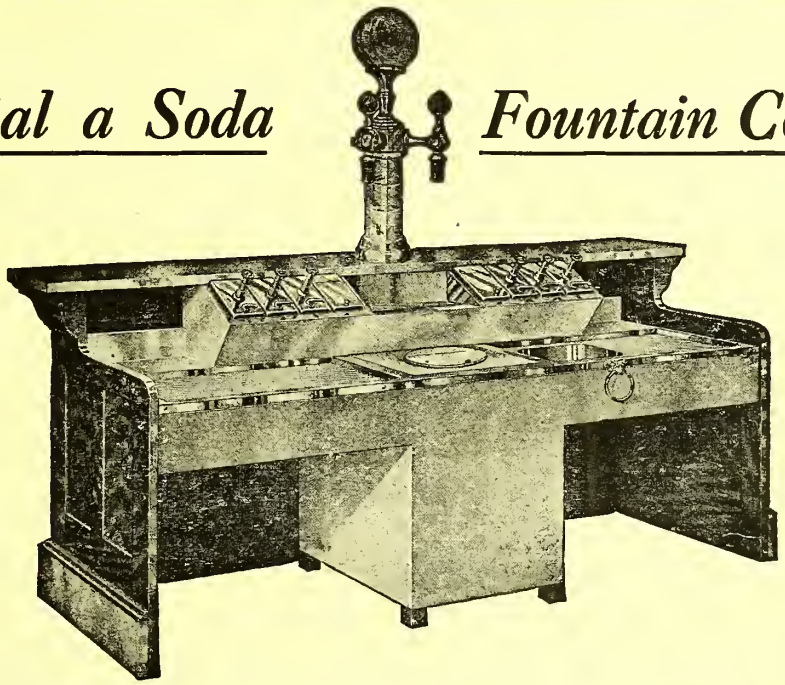
¶ As the manufacture of "Prana" Sparklets is necessarily of secondary importance during the War —except for the needs of the British Expeditionary Forces and Red Cross Hospitals—the general requirements of the Trade this Summer can only be met by the co-operation of the Trade itself in returning as many empty "D" Bulbs as possible, without delay.

AERATORS LIMITED

"Prana" Sparklet Works, Upper Edmonton, N.

A Money-making Proposition for Enterprising Chemists & Druggists!!

Instal a Soda Fountain Counter



The Soda Fountain is a prominent feature with Druggists' Stores throughout the United States. Why not here? It may be looked upon as an innovation, but is a step in the right direction as a Profit Earner!

It will improve the appearance of your Store and draw new customers if you have the right kind of Fountain, and that is

THE "RED CROSS" SODA FOUNTAIN

(THE STANDARD OF THE WORLD)

MANUFACTURED BY

The BISHOP-BABCOCK-BECKER CO., Cleveland, Ohio, U.S.A.

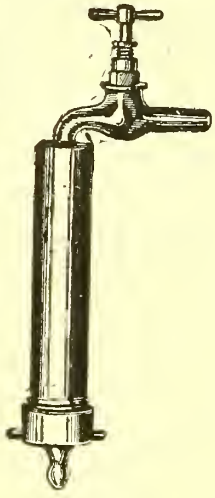
The range and variety of styles and sizes is practically unlimited, enabling every possible requirement being met.

Sole Agents for the United Kingdom and South Africa:

L. LUMLEY & CO., Ltd., The Minories, LONDON, E.,

who will be pleased to submit designs and advise those interested.

PURE DRINKING WATER.



The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT STATEMENT:

Wherever the **PASTEUR FILTER** has been applied, **TYPHOID FEVER** has disappeared.

WRITE FOR LIST B.

Sole Makers:

The British Pasteur Chamberland Filter Co.

5 WHITE STREET, FINSBURY, LONDON, E.C.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

Are reluctantly compelled to advance the prices of the following preparations, but, as the protected retail prices are also increased, the Trader's profit is still large.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins		7½d.	5/-
* " " " " "		1/2	10/-
* " " " " bottles in cartons		1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema — 1/6 — 12/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

'The Lancet' says: 'Of Standard Purity'

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

A. MILLAR & CO., Ltd., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co. Ld.

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

Casein
is of very little value alone.

It is only when it is combined in its natural state with milk activities that it is effective.

This recently discovered physiological fact amply explains the success of SanaPHOS in nerve nutrition, and its superiority in this respect to mere casein preparations.—(*Vide* recent work on the amino-acids.)

Sanaphos is an advance upon, and not an imitation of, the German preparation. The nerve system receives a larger proportion of restorative phosphate from Sanaphos than from other preparations. Patients do not tire of the flavour, and Sanaphos, no matter how long continued, does not weaken or disturb digestion.

Sanaphos is indicated in Mental and Physical Fatigue, Nervous Breakdown, Insomnia, and Neurasthenia. It is Nutrient, Restorative, and Activating.

The milk basis produces milk again (free from fat) when water is restored to it, and the fluid contains the active enzymes of raw milk, which in the manufacture of ordinary casein preparations are lost. The Physiological importance of this fact cannot be over-estimated. It means certain assimilation.

Sanaphos is British owned, British made, is prepared by a special process under Royal Letters Patent, and under the constant supervision of a skilled Chemist.

NOW RECOGNISED AS THE BEST PRODUCT OF ITS KIND.

Sanaphos
(T. M. Reg.)

THE IDEAL RECONSTRUCTIVE NERVE FOOD

THE BRITISH MILK PRODUCTS CO., LTD., 69 MARK LANE, LONDON, E.C.

Sanaphos can safely be recommended to your customers as a true *nerve food*. It can be taken with impunity for any length of time by anyone who can take milk.

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

EVERY GENUINE PACKAGE



BEARS THIS LABEL

EWEN'S LARD
is the
ONLY LARD
that
is made exclusively
for pharmaceutical
and perfumery
preparations
and is the
BEST AND
MOST RELIABLE
Guaranteed B.P.
Lard on the Market.

SAFETY RAZORS



Complete Outfits,
8/6 to 36/- Doz.

SAFETY
RAZOR BLADES,
4/6 to 14/6
per Gross.
Wholesale trade only supplied.

HAMMETT'S, —Manufacturers,— 422 MARE STREET, London, N.E.



The stock that's sure to move.

Ten million housewives are being informed through the Press that **Iron-mould** is no longer immovable. Think of all these women learning by a series of forceful advertisements in the biggest and most influential fashion and home periodicals that



TRADE MARK

MOOVOL

Regd

Removes Iron-mould, Grass and Fruit Stains, Ink, and that disagreeable Yellow Tinge from old linen without harming the fabric in any way. Think of the demand for Moovol that is sure to come, and decide to put it in stock now. Simply fill in the Coupon, and send it at once. You will receive display material together with the trial stock—and be glad you wrote, when you reap the profit.

W. EDGE & SONS, LTD.,
BOLTON, LANCS.

The Drummer Dye People.

ORDER. To **WILLIAM EDGE & SONS, Ltd.**

Please supply the following trial stock of Moovol (Carriage Paid) together with free batch of Display Material, Leaflets, etc.

.....doz. Moovol, 6d. size at 4/6
.....doz. Moovol, 1/- size at 8/9

(Signed).....

Address.....

RUSSIAN

LIQUID PARAFFIN

British Pharmacopœia 1914.

YOU can rely on the Liquid Paraffin we supply. Its specific gravity is right, its viscosity is right, and its price is right. It answers every B.P. test to the most exacting detail. Your customers will appreciate its excellence. It is a pure Russian oil, not a mixture. Send for prices.

All quantities from 1 gallon upwards supplied.

Wm. BROWNING & Co.

— Manufacturing Chemists, —

4 Lambeth Palace Rd., London, S.E.

Telephone: Hop 3217. *Telegrams: "Semprolin, Lamb, London."*

OUR CUSTOMERS

say:

"Your oil is far and away the best I have come across."

"We are offered a good oil at a cheaper rate, but like yours the best." (*50 gallons*)

"Your Liquid Paraffin certainly seems to be superior to any of the others."

Luck

A reader has pointed out to us the "lucky" heading to this weekly article in our issue dated July 1.

The title was "The Big Push," and it proved unusually appropriate for the commencement of the Franco-British offensive which was so brilliantly initiated on that day.

. . .

It was, of course, purely a coincidence that we selected "The Big Push" as a peg on which to hang our notes. We should not like to call it "luck."

Luck is a bad thing on which to base the destinies of business.

There is no permanent satisfaction in sortilege.

. . .

Commercial comprehension of the laws of success is as confident as is the pyrologist of the laws of heat.

A good commodity of guaranteed quality and in universal demand, saleable at a popular profit-bearing price and backed by a maker's name of sound reputation, will always find a ready market.

. . .

We like to eliminate, as far as possible, the elements of chance from our new productions. Only our wide experience makes this possible. We weigh the pros and cons of a proposed line very carefully. We examine all the possibilities of the idea and the probabilities of its introduction.

Will it interest Pharmacists? How will the public like it? How big is the market? On what scale can we manufacture it?

. . .

Pococurantism is fatal where new business opportunities are in contemplation.

. . .

In the old days sailors approached within speaking distance before discharging their cannon at the enemy, and trusted to luck whether they scored a hit. Now we cease to marvel at a modern gun which accurately hits its target at a distance of ten miles.

In business the old hazards are scrapped for an era of exactness of detail that ensures satisfaction.

Our many new lines are good examples. *Capsule*

Maw's Page

S. MAW, SON & SONS (GPO BOX No 541) 7-12, ALDERSGATE ST. LONDON, E.C.

No. 249 JULY 22, 1916



LINT

Only the very best is "good enough" for surgical purposes. Lints, cotton wool and gauzes used for this important work should therefore be of the very best quality.

Cheap Dressings are not really economical in use because they do not go so far. Common dusty wool has to be used in far larger quantities than a wool with a good long staple; cheap Gauzes have far less yarn in them and therefore more is required to make up a good pad. A pound of Common Lint does not contain the same number of yards of material as a pound of better quality, and therefore although it may cost less one gets less material.

We recommend a few lines of really excellent quality.

LINTS.—Boric Lint, Maw's Super. A beautiful lint, carefully medicated. Very soft in texture, with a large area.

ABSORBENT COTTON WOOLS.

Surgeon's superfine. A beautiful preparation of the very finest quality. Hand rolled or interleaved if required.

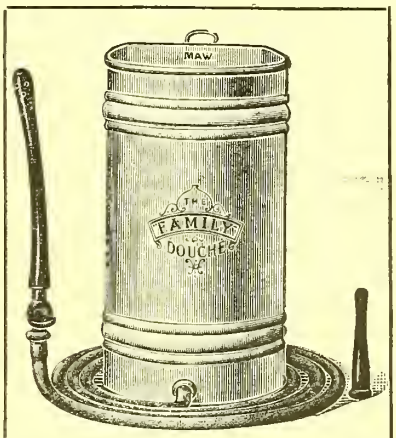
Best quality. Slightly lower than the superfine, but immeasurably better than the wools in ordinary use. A fine article. Machine rolled, but not interleaved.

X Quality. A very popular wool, interleaved with pink tissue. Excellent for general purposes. Thoroughly reliable.

Hospital quality. Interleaved. A cheap quality which can be guaranteed.

ALL MAW'S WOOLS CONTAIN A NET WEIGHT OF COTTON, WHETHER INTERLEAVED WITH TISSUE PAPER OR NOT.

MAW QUALITY



"ALWAYS LOOKS CLEAN."

A fitting recommendation for one of the best of douches. Maw's "Family" Douche consists of a white enamelled tin fitted with best English *grey* tubing, complete with set of vulcanite fittings. Each in strong cardboard carton.

THE "FAMILY" IS FAVOURITE, AND BRITISH MADE.

Immediate delivery from stock.

2-PINT
41/6

3-PINT
44/6

4-PINT
46/-

PER DOZ.

TELEPHONE: CITY 7 (PRIVATE BRANCH EXCHANGE). TELEGRAMS: "ELEVEN CENT LONDON."



"Indispensable."

THE EXTRA PHARMACOPŒIA NOW READY.

By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915). REVISED AND ENLARGED.

PRICE 21s. net; postage 5d., abroad 6d. Separately, Vol. I., 14s. net; postage 5d. Vol. II. 7s. net; postage 3d.

"It is a book that is indispensable to the modern pharmacist, and in this case an old edition is not 'just as good.'"—*Chemist and Druggist.*

"The two volumes together form an invaluable compendium of information."

"A work of great utility."—*The Lancet.* [*British Medical Journal.*

"The Extra Pharmacopœia maintains its high standard and more. All interested will welcome this new edition of an indispensable book."—*Pharmaceutical Journal.*

LONDON: H. K. LEWIS & CO. LTD., 136 GOWER ST., LONDON, W.C.

Also of W. MARTINDALE, 10 NEW CAVENDISH STREET, LONDON, W.

SCHOOL OF PHARMACY

OF THE

PHARMACEUTICAL SOCIETY.

The School provides systematic courses of instruction for the Minor and Major Examinations of the Pharmaceutical Society. Both Courses commence in October, the Minor Course continuing until the end of June 1917.

Arrangements have been made to admit to Special Shorter Courses Students who can satisfy the Dean that they have already received adequate scientific training.

Applications for admission to the School, or for any information respecting it, should be addressed to—

THE DEAN OF THE SCHOOL (Prof. Greenish, F.I.C.), 17 Bloomsbury Square, W.C.

FOR SOUND AND PRACTICAL TUITION IT IS UNEXCELLED.

LIVERPOOL SCHOOL OF PHARMACY

FOUNDED IN 1850 by the LIVERPOOL CHEMISTS' ASSOCIATION, and still RECOMMENDED by that Body.

PRINCIPAL, H. HUMPHREYS JONES, Ph.C., F.C.S.

JANUARY MINOR PASS LIST	PRACTICAL... ...	100%
	THEORY	85%
APRIL MINOR PASS LIST	PRACTICAL... ...	100%
	THEORY	100%

COURSES for APOTHECARIES' HALL and MINOR Exams. have just commenced.

Full particulars on application to the PRINCIPAL, 18 COLQUITT STREET, LIVERPOOL

Chemists—

You are not satisfied with the *Developing* and *Printing* now being done for you. Let me put your work right. Send me your next spools. I will develop and print from the negatives. Art Velox only used.

SPEEDY RETURN. PERFECT FINISH.
PRICES GLADLY SENT ON REQUEST.

CHATHAM PEXTON,

46 GRAY'S INN ROAD, LONDON, W.C.

Telephone: 11578 Central.

UNIVERSITY OF BIRMINGHAM

Faculties—

SCIENCE, ARTS, MEDICINE, COMMERCE.

SPECIAL SCHOOLS OF LANGUAGES.
DEPARTMENT FOR TRAINING OF TEACHERS.

Schools of

ENGINEERING, METALLURGY, MINING, BREWING, DENTISTRY.

Leading to Degrees and Diplomas.

The Session 1916-17 commences October 3, 1916.
All Courses and Degrees are open to both Men and Women Students.

In the Medical School Courses of Instruction are arranged to meet the requirements of other Universities and of Licensing Bodies.

Graduates, or persons who have passed Degree Examinations of other Universities, may, after one year's study or research, take a Master's Degree.

Syllabuses, with full information as to Lecture and Laboratory Courses, Fees, Regulations for Degrees, Diplomas, &c., Exhibitions and Scholarships, will be sent on application to the Secretary of the University.

SHOPFITTINGS, SHOWCASES, SIGNS,

&c., &c.

Of Best Quality, Excellent Style, High-class Finish, at Lowest Prices.

SHOPS MODERNISED. ESTIMATES FREE.

Competent Fitters sent to all parts.

AYRTON-GRAHAM, Ltd., 106 DUKE STREET, LIVERPOOL

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF 1916 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

ILLUSTRATED CHEMISTS' PRINTING

Our Special Illustrations are suitable for every Chemist's Speciality, and are sure to create

GOOD SALES

Send your Inquiries for Circulars, Labels, Cartons, Envelopes, Etc.

— TO —

Thomas Waide & Sons

CHEMISTS' PRINTERS,

KIRKSTALL ROAD, LEEDS

Full Set of Samples to Colonies **10/6**, which we credit on orders of **£5** and upwards.

NOW IS THE TIME TO MAKE MONEY

By Specialities made from well-tried, proved and reliable recipes which have stood the test for twenty years.

EASY TO MAKE. VERY PROFITABLE.

"Vir-Ung"—(A Vegetable Salve).
Soothing, Healing and Curative for General Family use. It will compare favourably with the much-advertised Ointments, and pay treble profit.

"Hairclean."
For making Nursery Lotion. A Concentrated Soluble Powder. 3d. boxes (costing under 1/- per dozen) make half-pint Strong Lotion.

"Vigorade"—(Fruit Syrup).
Makes a Delicious Cooling and Refreshing Drink. Contains Phosphorus, and resembles old style Zoedone.

"Vicoma"—(Hair Life).
Concentrated Pomade. Positively forces and increases the Growth; specially useful for Bald Spots, Weak Eyebrows, &c.

Embrolin"—(Pain Killer).
A creamy inseparable Liniment, containing Mustard Oil. Specially useful to Athletes. RUBS IN WELL.

RECIPES, 2/6 each: 5 for 10/-
POST FREE, WITH FULL INSTRUCTIONS.
SAMPLES 6d. each, post free.

TOM BROOKS, *Chemist,*
HORNSEY, LONDON, N.

No. 77

BRITISH Eau de Cologne





In Square Bottles

2 oz.	...	11/- doz.
4 ,,	...	21/6 ,,
8 ,,	...	41/6 ,,

In Wickered Bottles

½ pint	...	34/6 doz.
1 ,,	...	65/- ,,
2 ,,	...	122/- ,,

Write for Samples.
Showcards supplied.



MANUFACTURED ONLY BY

WILLIAM TOOGOOD, Ltd.,
77 Southwark Street, London, S.E.

FEATHEREDGE RUBBER SPONGES

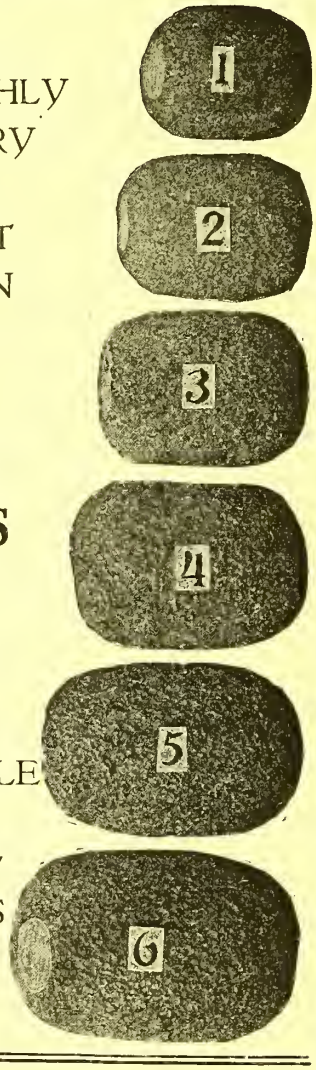
THOROUGHLY SANITARY AND DO NOT HARDEN

—□—

Very **GOOD PROFITS** for the Retailer

—□—

OBTAINABLE OF ALL DRUGGISTS' SUNDRIES HOUSES



Markt & Co., London,
——LTD.——
American Merchants,
SOLE IMPORTERS,
98-100 CLERKENWELL RD.,
LONDON, E.C.

GOOD!

IT'S MASON'S

EXTRACT OF HERBS.

The Drink for the Masses.

Millions of Glasses used daily by workers all over the Empire.



A CONSTANT USER SAYS:

Scole, Norfolk.

Gentlemen—For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

I am, Sirs, yours truly, J. W.

Besides being a grand refresher, Herb Beer made from

MASON'S EXTRACT OF HERBS

is cheap. For **2d.** you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

Please allow us to Sample and Quote—

Citrate Magnesia

Health Salt

Salines

Liver Salt

Blood Salt

Sulph.&Sarsap.Salt

Lemonade

Crystals, &c.

NEWBALL & MASON,
NOTTINGHAM.

The

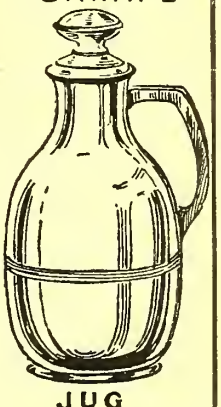
ONLY Complete Line



FOOD JAR



CARAFE



JUG

The genuine **THERMOS** is the only complete line of heat-retaining Vessels on the market. The **THERMOS** list includes Food Jars, Cream Jars, Carafes, Jugs, Bottles, Lunch Kits and many auxiliary items all of the one high grade of manufacture, and all at standardised prices allowing a liberal margin of profit.

Beware of the cut-price imitations imported from "neutral" countries. Get the genuine **THERMOS**

NEW CATALOGUE and PRICE LIST

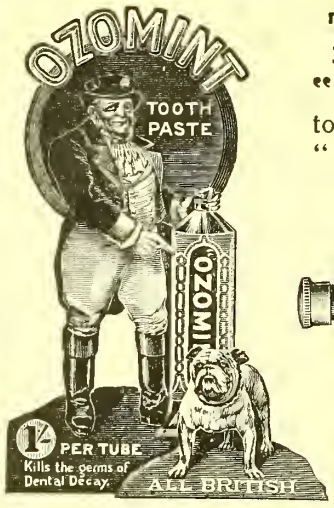
supplied in quantities for your own use.



THERMOS LTD

8 Long Lane, Aldersgate St., London, E.C.

Phone: Central 5947.
Wire: 'Ultraism London."



THE NEW TOOTH PASTE.

"OZOMINT" has been produced to replace the German Tooth Paste "PEBECO," which is now practically unobtainable.



DO YOU STOCK IT?
NOW is the time to push.



EACH TUBE PACKED IN A SEPARATE CARTON,
12 CARTONS IN ATTRACTIVE CARDBOARD OUTER.

Free Handsome Showcards (as illustrated) with Orders for 1 dozen.

Price 7/6 per dozen tubes.

CUXSON, GERRARD & CO., Ltd., OLDBURY.

7d.



Make your old Hat a new one.

In bottles, 7d. each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS.
NO POLISH.

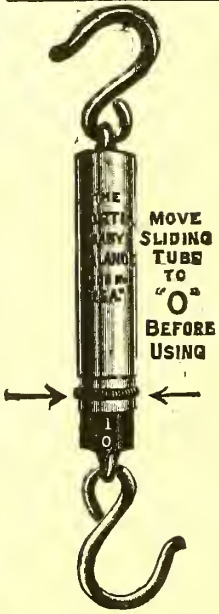
On the P.A.T.A.

Write for terms, patterns also leaflet of testimonials.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.
London Depot: 60-62 Clerkenwell Road, E.C.
"Glossy" Series supplied if desired.
Special Non-Inflammable Series for Export. *Est. 1878.*
Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

A Profitable Seller



THE
"PORTIA"
(Regd.)
NET WEIGHT
Baby Balance
Weighs up to 15 lb.

Price	Retail
11/6 dozen.	1/6 each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,
184 to 190 Goswell Rd., London, E.C.
Obtainable through all Wholesale Houses.

WE INVITE ENQUIRIES: FOR THE FOLLOWING:-

ZINC OXIDE "PURISS"
Finest and Lightest 99.8%

"XYSOL"
A British-made LYSOL.

LANOLIN ANHYDROUS
Rather dark colour.

PEPSIN PORCI B.P., etc.

EMULSIONS
Cod Liver Oil, Petroleum, etc.

PARAFFIN LIQUID B.P.
Finest Russian Oil.

CRETA PRECIP "G.W.N."
Finest and lightest made.

PARRISH'S SYRUP

OTTO OF ROSE
Synthetic.

P. GUM ACACIÆ
Special fine white powder.

IMPORTERS OF

EUCALYPTUS OIL. CHAULMOOGRA OIL.
COD LIVER OIL and CASTOR OIL
and COPAIBA BALSAM B.P.

Licensed Compounders of Tinctures, Essences, Spirits, Perfumes, &c., in Bond.

AWARDS

LONDON, 1881. VIENNA, 1883. CALCUTTA, 1884. CHICAGO, 1893.

H. E. STEVENSON & CO.,
122, GREAT SUFFOLK STREET, LONDON, S.E.

TELEPHONE: 1831 HOP. TELEGRAMS: "EKLIPS, LONDON."

CONTRACTORS TO HIS MAJESTY'S GOVERNMENT.

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK.
Lightest and Whitest, also Purest Dense.
APPLY TO
AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

A REAL LABOUR SAVER.
THE ELBIE DUSTLESS DUSTER.
Absorbent, healthy, and hygienic; no shaking required; after washing is as good as new; polishes and dusts at the same time.
Obtained Award of Merit, Institute of Hygiene.
Retail price 7½d. each. Sample dozen, postage paid, 5/6.
Sales to date nearly 500,000.
ELBIE DUSTER CO., Thongsbridge, Huddersfield.

FORMALDEHYDE 40%
LACTIC ACID.
WHOLESALE. FOR SPOT DELIVERY.
Harry Heymann, 5 Union Street, Bradford.

TOBACCOS! CIGARS! CIGARETTES!
Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied Opening orders a Speciality. Send for Price List.
SINGLETON & COLE, LTD., Cannon Street, BIRMINGHAM AND BRANCHES.

S.V.M. WINES FOR CHEMISTS. S.V.R.
A. MACNAIR & Co Dolphin Distillery, Ardwick, MANCHESTER



CACHETS "FINOT"
(White or Coloured),
With inscriptions in any desired tint; also Plain or Embossed.
"Beautifully made, and the inscriptions give them a distinction all their own."—*C. & D.*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In Ten Sizes. Also supplied to fit existing machines.

JOHN E. RAWORTH
CHARTERED PATENT AGENT,
PATENTS, TRADE MARKS AND DESIGNS.
THE OLD MANSION HOUSE, 73 Cheapside, E.C. and QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

Van Horn and Sawtell
—LONDON AND NEW YORK— MAKERS OF
"K-Y" LUBRICATING JELLY
IN COLLAPSIBLE TUBES AND OF
"Van Horn" Sterile Sutures and Ligatures
IN GLASS TUBES — PRICES ON APPLICATION
31-33 HIGH HOLBORN, W.C

First-Class Mechanical Dentistry.
Reliable workmanship. Popular Prices. Moderate charges for Gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M.Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for showcase pieces. 20 years' experience of first-class mechanical dentistry.
E. C. HALDER, 46 New Cross Road, LONDON, S.E.
'Phone, New Cross 1555.

TRY A DOZ. from your Wholesaler. IT SELLS A1!
(For Home & Export.) **FARMER'S** (Of all Wholesalers.)
"BAITED" PHOSPHOR PASTE.
GAMEKEEPERS recommend it. Pots 3d., 6d., & 1/-.
THE RAT, MOLE, MOUSE & BEETLE POISON.
F. FARMER & CO., 1a College Lane, Homerton, LONDON, N.E.

CARBON PAPERS.
Typewriter Carbon Paper. 1,000 boxes to be sold immediately, at 3/9 per box of 100 sheets, quarto or foolscap, carriage paid. OFFER CANNOT BE REPEATED; ORDER AT ONCE. SAMPLES FREE.
B. PODMORE & CO., Typewriter Dealers, SOUTHPORT.
RIBBONS FOR ALL MAKES OF TYPEWRITERS.

SANITARY FLUIDS
CO-EFFICIENT 3, 12, and 18/20.
Low quotations for barrel lots and upwards.
C. A. STOKES & CO. Ltd., 31/35 Lower Castle Street, BRISTOL.

British-made
ANILINE DYES
FOR FOOD STUFFS, ETC.
Lowest Prices for Egg Yellow, etc.
J. & T. HOYLE & CO.,
312 Deansgate, Manchester.

SILVER SALTS Highest Award for Pharmaceutical Products at Berne, 1914.
Silver Proteinate, Silver Nucleinate, Silver Citrate, Colloidal Silver.
TANNIN PREPARATIONS *Tannin Albuminate Methylendi-Tannin.*
LUDY & CO., Chemical Works, *Berthoud, Switzerland.*

RA-BA-SA
In your own Bathroom, for 5/9
33⅓% to the Trade.
Radium Bath Salt.
A week's Radium Treatment for Rheumatism, Neuritis, Insomnia &c.
Descriptive Booklet and information as to further Radium preparations from
RADIUM SALT COMPANY, Ld.
Telephone— 2753 Holborn 21 Farringdon Ave., LONDON, E.C.



SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

TRIAL BOTTLES 6d. size, supplied on pretty showcards.

4/6 doz.; 1/- size, 10/- doz.; 3/6 size 30/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

EBOR PARCEL SEALS WRITE FOR CATALOGUE

SPECIALLY ADAPTED FOR CHEMISTS' GOODS

The PROVED VALUE of EBOR PARCEL SEALS for packing lies in their security, smartness, advertising value, and the saving of time & labour.

W. SESSIONS, Printer, YORK.

ALL CHEMISTS SHOULD STOCK **ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in 1d. Packets, and Boxes of 13 Packets at 1/-

Order through your Wholesale Drug House.

D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

Wholesale Prices on Application.

ZEPTO interferes with none of your Dental preparations. The pencil is used in conjunction with your own dentifrice. In addition therefore to being a smartly packed and profitable advertised line, it helps your own proprietaries. Send for special offer. Advertised 9d. P.A.T.A. 7½d. 4/6 dozen.

CHRISTYS, OLD SWAN LANE, E.C.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz Plain or graduated.

BEST QUININE, TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz Plain or graduated.

WHITE PHIALS.—¼ oz., 1 oz., 1½ oz., 2 oz Plain or teaspoons.

BLUE LOTION BOTTLES.—½ oz., 1 oz., 1½ oz., 2 oz., 3 oz., 4 oz 6 oz., 8 oz., 12 oz.

PANEL BOTTLES.

We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.

CORKS.

Good quality. No advance in price: 6 and 8 oz. bottles, 9d. per gross in 6 gross bags. Vials 6d. per gross in 3 gross bags.

I. ISAACS & CO.,

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.

Or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention.

Established 100 Years.

A return of 50% to 65% on outlay can be made by all Chemists who will handle 'HOME' BATH CABINETS.

BRITISH-MADE THROUGHOUT.

To give you a fair start, we offer a Sample Cabinet complete, and a supply of strong selling literature at the following *cut prices, Cash with Order.*

With Inside Spirit Heater 25/9, Retailing at 38/6

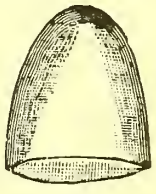
" Outside " " 35/3, " 49/6

Riley Bros. (1914) Ltd., Bradford

THE ONLY MAKERS TO THE TRADE.

RENDELL'S

SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in ***RED INK,*** are upon each box thus:

Registered Trade Mark, without which none are genuine. No. 182,688.

W. J. Rendell No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,

INVENTOR AND SOLE MAKER,

15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

Profitable and Reliable India-Rubber Goods for Chemists.

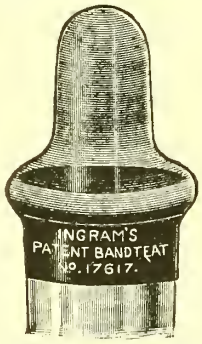
INGRAM'S

"Agrippa"

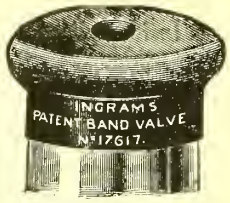
PATENT No 17617

Band Teat and Valve

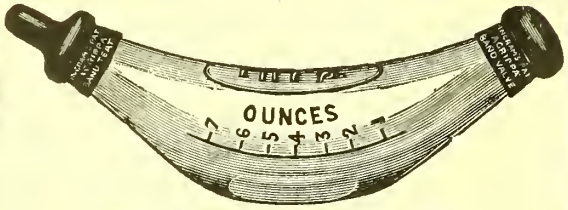
BRITISH MADE
by
BRITISH LABOUR.



"AGRIPPA" BAND TEAT
(Black or Transparent Rubber)



"AGRIPPA" BAND VALVE
(Black or Transparent Rubber)



IMPOSSIBLE TO SLIP OFF
PERFECTLY STERILIZABLE

The "AGRIPPA" Band Teat will fit any shape Feeding Bottle, and will not slip off.

Goods.	Minimum Wholesale Prices to Chemists.	Minimum Retail Prices.
"AGRIPPA" TEAT (Patent No. 17617), Black or Transparent.	2/6 Per Doz. net. 27/6 Per Gross net. (For orders of 3 Doz. and over).	3½d. each
"AGRIPPA" VALVE (Patent No. 17617), Black or Transparent.	2/- Per Doz. net. 22/- Per Gross net. (For orders of 3 Doz. and over).	3d. each

OBTAINABLE FROM ALL WHOLESALE HOUSES.

Patentees and Manufacturers:

J. G. INGRAM & SON
HACKNEY WICK, LONDON, N.E.

ROBT. BAILEY & SON,

Clegg Hall Mill,

Telephone: 114 LITTLEBOROUGH.
Telegrams: BAILEYS, SMITHY BRIDGE.

SMITHY BRIDGE, LANCS — Eng.

MANUFACTURERS OF
SURGICAL DRESSINGS
ABSORBENT GAUZE TISSUE, COTTON WOOL, BANDAGES, LINT, TOW, &c.
PATENT FOUR-PLY GAUZE.
SANITARY TOWELS.

BRITISH MADE
AND
BRITISH OWNED.

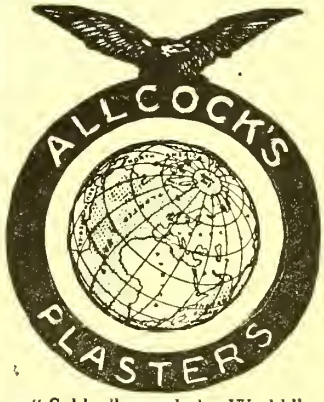
WHOLESALE ONLY. **Write for Samples and Prices.**

ESTABLISHED 1847.

Allcock's
PLASTERS

REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
The Three Reliables.



"Sold all round the World."

Prices and Terms on application to

ALLCOCK . . MANUFACTURING . COMPANY . .
22 Hamilton Sq., Birkenhead.

AIR CUSHIONS.



Fig. 1194.

BRITISH MAKE.



Fig 1354.

Fig. 1194.—The **"EMPIRE,"** red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each ...	6 6	7 0	8 0	8 6	10 0	11 6	12 6

Fig. 1354.—Air Cushion, sateen covered, reeded ... ... Sizes 14×10 | 15×12 | 18×14 in.
Each 4 3 | 4 9 | 6 0

Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case with clasp ... ... each 4 9
,, ,, ,, ,, ,, super quality ... ,, 6 0

5% discount allowed for prompt cash off above prices. Carriage paid on orders of £2 and upwards to any town in the United Kingdom.

We are the right House for BRITISH-MADE GOODS—Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

STIPENDUM CORK STOPPERS

in all sizes suitable for KALIS, CITRATES, DISPENSING, and all FLUIDS.

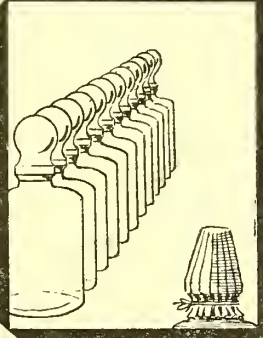
STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples & particulars apply to

The Stipendum Stopper Co.
1 Newman Street,
LONDON, W.
Tel. No. 3769
GERRARD.



You can cap a DOZEN bottles with

SEMREH BOTTLE CAPS

in the time it takes to fit and tie down one of the old-fashioned paper sort—and with better results. Details from

THE VISCOSE Development Co., Ltd., Bromley, Kent.

SUPPORT HOME INDUSTRIES.

Estd. 1777.

C.B. KENT & SONS LTD
BEST BRITISH BRUSHES

Incd. 1900.

BUY KENT'S BRUSHES.

Winter Issue, 1916, pp. 96, 97.
Diary, 1916, pp. 96, 97.

"Yes, It's Deadly!"



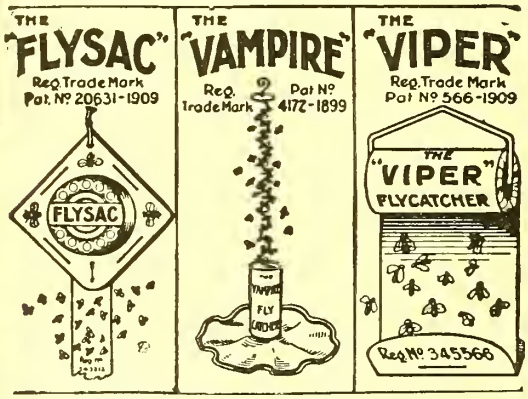
MINIMUM RETAIL

3d. size	... 2/- doz.		6d. size	... 4/- doz.	
4½d. ,,	... 3/- doz.		1/- ,,	... 8/- doz.	
3/6 size (1 lb.)	... 28/- doz.				

Evans Sons Lescher & Webb Limited
London & Liverpool F



REAL FLYCATCHERS!



The above Flycatchers are of proved effectiveness. They are neat, clean, and easy to handle. Stock well and sell well and readily repeat. Only the finest materials are used in their construction.

"COME TO STICK!"

These goods are no experiment, but the outcome of over 30 years' experience in the manufacture of Birdlimes and Fly Gums.

KAY BROTHERS Ltd., STOCKPORT.

Telegrams: "Kay Stockport." Nat. Tel. 247. (2)



CHRISTY STRONG'S

"COBWEB" & "GRIP" FLY PAPERS

Per Gross **6/-** Carriage Paid.

The "Strong" Fly String

8/- Per Gross.

Postal Address:

115 CHATHAM STREET, READING.

Telegraphic Address: "STRONG READING."

DO YOU BUY ESS. VANILLA ?

Try VANOLEUM

Stronger than Vanilline. Soluble in Water.

26/- lb.

ARTHUR WHITTAKER,
Specialist in Colours and Flavours,
NEWTON HEATH, MANCHESTER

WHITE MARSEILLES SOAP

SO-CALLED CASTILE SOAP
60-65 per cent. FATTY ACIDS.

A PURE VEGETABLE OIL SOAP

For prompt or forward delivery.

FREDK. BOEHM, Limited,
16 Jewry Street, LONDON, E.C.

TO ALL BUYERS OF

PARAFFIN WAX

SPECIALITY HIGH GRADE WAX

APPLY TO [2]

ASIATIC PETROLEUM Co. LTD
St. Helens Court, Great St. Helens, LONDON, E.C.

LIQUID PARAFFIN B.P.

PETROLEUM JELLY

WHITE OILS

Half-White and Coloured Oils

STERN SONNEBORN OIL CO., LTD.
51 Royal London House, Finsbury Sq., London, E.C.
Works—Burdett Oil Works, Stepney, London, E.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.



KRASKA

THE QUEEN LIQUID
:: NAIL POLISH ::

Highly Profitable.

Sold at all Wholesale Houses
8/3 11/- 16/6
Per Dozen.

Retailing at
1/- 1/6 2/6
Per Bottle.

Applications for Agencies invited.

The Kraska Co., Ld.
7 Blenheim St., LONDON, W.

PICKARD, IVE & RANKIN, Ltd.
Walmer Chemical Works, NOTTING HILL, LONDON, W.

British Acetyl-Salicylic Acid

of guaranteed B.P. quality, in snow-white crystal flakes.

Telegrams: "Pickiveran Norkens." Telephone: Park 4500.

HARVEY'S
GREAT REMEDIES FOR THE HORSE
WITH THE ADDED REMEDIES.
(Protected Prices.)

HARVEY'S ACONITE POWDERS.
For Chronic Cough, Broken Wind, Roaring, &c.
HARVEY'S WORM AND CONDITION POWDERS.
HARVEY'S WATTS' EMBROCATION, or Curb Bottle.
HARVEY'S WATTS' RED LOTION.
For Wounds.
HARVEY'S HAIR RESTORING OINTMENT.
HARVEY'S EDOS, or Tasteless Purging Powder.

THE ADDED REMEDIES:

HARVEY'S KOPPOS POWDER,
For Lymphangitis, or Weed, and Inflammations generally. In Tins, **5/-** and **10/-** each.
HARVEY'S THRUSH SPECIFIC.
In Tins **1/9** and **3/-** each.
HARVEY'S HOOF OINTMENT.
In Tins, **3/-** and **6/-** each.
Also
HARVEY'S HAIR RESTORER (HUMAN).
A successful modification of the Veterinary Preparation. In Pots, **2/-** each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

HARVEY & COMPANY, LTD., DUBLIN.

S.V.M.

Best Quality Only.

RANDALL & SON,

Limited.

Wholesale and Export Druggists,

SOUTHAMPTON

Tel. Address: "Pillischer London." *Established 1843.* Telephone: 4418 Gerrard.

J. PILLISCHER, 88 NEW BOND STREET, LONDON, W.

MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND

SOLE MANUFACTURER OF THE CELEBRATED "INALTERABLE" CLINICAL THERMOMETER.

RECENT EXHIBITIONS: 12 GOLD MEDALS—14 GRANDS PRIX.
GAND, 1913, GRAND PRIX; GAND, 1913, HORS CONCOURS.
(French Section) (British Section)

BAISS BROTHERS & STEVENSON, Ltd.

FOR

FINE CHEMICALS OF ALL DESCRIPTIONS.
STANDARDISED TINCTURES AND EXTRACTS.
CONCENTRATED INFUSIONS AND DECOCTIONS.
DISINFECTANTS.
POWDERED DRUGS, STANDARDISED.
COMPRESSED TABLETS.
CONCENTRATED SOLUBLE ESSENCES.
CHEMISTS' PACKED SPECIALITIES.
DRUGGISTS' SUNDRIES.
HOSPITAL EQUIPMENT.
SURGICAL INSTRUMENTS AND DRESSINGS.
Etc. Etc.

Specialities of the Firm.

ELIXIR SENNÆ LEGUM. (BAISS).
EMULSION OF COD LIVER OIL. (BAISS).
(Gold Medal awarded XVIIth International Congress of Medicine, London, 1913.)
GLYCEROL HEROIN c. TERPINHYDRAT. (BAISS).
LIQ. COLCHICINÆ SALICYL. (HOPKINSON'S).
LIQ. SANTAL CO. (BAISS).
MIST. BISMUTHI AROMAT. (BAISS).
MIST. TUSSI RUB. CONC. 1—7. (BAISS).
SYRUP. FERRI PHOSPH. CO. (BAISS).
SYRUP. GLYCEROPHOSPHATUM. (BAISS).
SYRUP. HYPOPHOSPHIT. CO. (BAISS).

PRICE LISTS IN VARIOUS LANGUAGES.

BAISS BROTHERS & STEVENSON, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments,

Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.

174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.

Established 1833.

THE
Herb-Growing Association

This Association will shortly be able to supply
CALAMUS ROOT
BLACK BRYONY ROOT (fresh)
PEPPERMINT. COLCHICUM CORM.
SPEARMINT.
Rose Petals and Belladonna Leaves, &c.,
in good condition.

7 (6th Floor) Queen Anne's Chambers, Westminster, S.W.
Telephone: 5999 VICTORIA.

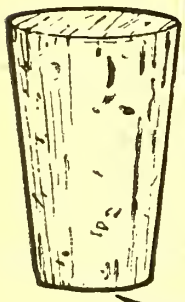
Absolute Alcohol

MADE IN HOLLAND.

The Pharmacia
Royal Pharmaceutical Laboratories,
27-35 LOOIERSGRACHT, AMSTERDAM.

Dr. GIUSEPPE MOIZO
CORSO COMO 18, MILAN.
Manufacturer of
CREAM OF TARTAR
99/100 %. Free from lead and arsenic.
FINEST WHITE POWDER.
INQUIRIES SOLICITED.

ERNEST JACKSON & CO.
Manufacturing Chemists. LIMITED.
Specialists in MEDICATED LOZENGES, PASTILLES, JUJUBES, COMPRESSED TABLETS, CAPSULES, PERLES, CACHOUS, BOILED GOODS, SALINES, &c. &c.
IMPORTERS of LIQUORICE JUICE
and makers of
THE ORIGINAL *cushion-shaped*
LIQUORICE & MENTHOL PELLETS.
WORKS & OFFICES: CREDITON, DEVON.
LONDON DEPOT: Plantain Place, Crosby Row, BOROUGH, S.E.
Telephone: HOP 2668
TELEPHONE: CREDITON, No. 10.
TELEGRAMS: "JACKSON-CREDITON."



CORKS for CHEMISTS
6 & 8 oz., 1 inch long.
"N.I." Quality 4½d. per gross
"1st" " 7d. " "
"G.A.O." " 9d. " "
"S.C.E." " 1/3 " "
Plus 10 % War advance.
MITCHELLS, Ltd. THE CORK FIRM
LIMEHOUSE, LONDON, E.
10/- worth delivered free in British Isles

ZEE-KOL
THE WONDER SKIN CURE
Zee-Kol is a scientific production of great curative and antiseptic qualities, so well blended together that it forms a skin ointment of great value to sufferers from skin diseases. It has been proved that it cures all the skin diseases that we publish in our numerous advertisements.
LARGE ADVERTISING CAMPAIGN STARTS AT ONCE.
SEE THAT YOU ARE WELL STOCKED.
Retail Prices, 1/3 and 3/- (P.A.T.A.)
Net Wholesale Prices, 12/- and 28/6 per dozen.
THE ZEE-KOL MANFG. CO.,
104 High Holborn, London, W.C.
Telephone: 2797 Holborn.
Telegraphic Address. "Zeekolma, Westcent, London."

METHYLATED SPIRIT
OILS AND CHEMICALS.
Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.
SAMUEL THORNLEY, LTD., BIRMINGHAM

BRITISH MADE.

SALICYLIC ACID

FINEST QUALITY.

B.P. CRYSTALS.

Prompt and Regular Deliveries.

Sample and Quotation on Application to

E. T. PEARSON & CO., LTD.

Manufacturing Chemists,

LONDON ROAD, MITCHAM, SURREY.

Telephone: Mitcham 882. Telegrams: "Pearsonet Mitcham."

C. MELIN & CO.

ESTABLISHED 1865.

7 India Street, Crutched Friars, London, E.C.

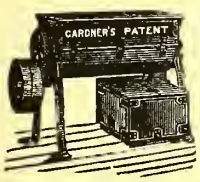
supply **GLASS AMPOULES, TUBES and LAMP BLOWN ARTICLES**

OF EVERY DESCRIPTION. PROMPT DELIVERY.

DIRECT FROM THE WORKS. :: WHOLESALE & EXPORT.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS



OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust

FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

THE NEW FRENCH REMEDY.

THERAPION No. 1

Cures Urethral Discharges, Gonorrhœa and Gleet.

THERAPION No. 2

Cures Blood Poison, Bad Legs, Skin Eruptions.

THERAPION No. 3

Cures Chronic Weaknesses, Drains, Lost Vigour, &c.

Stocked by leading Wholesalers. Price in England, **2/9.**

SOLE PROPRIETORS- DR. LE CLERC MED. CO.

Literature and small attractive Showcard FREE on request from London Depot,

DE ROOS, JOHNSON & Co.
KENTISH TOWN, N.W.
Telephone: Hampstead 112.
Paris Depot: Rue Castiglione.
New York Depot: 90 Beekman Street.

TRADE MARK "THERAPION" Registered throughout the World.

Sales of "Therapion" bring customers for Lint, Suspensories, Caustic Points, Ointments, Lotions, &c.

The New Dragee (Tasteless) form of Therapion will please your customers. Easy to take, safe and lasting cure.

DR. LE CLERC'S PILLS FOR THE LIVER AND KIDNEYS 2/9.

DR. LE CLERC'S VEGETABLE APERIENT PILLS 2/9.

DR. LE CLERC'S SOAP TABLETS, 1/-.



A Great Selling Point

Savaresse's Capsules

(made of animal membrane)

are the only Capsules not made of gelatine

on P.A.T.A. List

Their envelope of organic membrane insures absorption by the intestinal tract instead of by the stomach, thus absolutely avoiding the usual nausea and "repeating."

MINIMUM SELLING PRICE, Sandal, 4/- per box.
WHOLESALE PRICE, 38/6 per dozen NET.

Evans Sons Lescher & Webb Limited

London and Liverpool (x)

"Yena" Powder De Riz

(Shen)

Bijou	18/-
Small	33/-
Large	48/-
Jumbo	88/-

N.B.—This is the Best Selling Line ever offered.

Showcards supplied Free.

3 NEW LINES.

Fett Powder
Assorted tints, in tins ... 21/- per gross

Russian Face Powder
Assorted tints in square, gold blocked boxes, 24/- per gross

Cologne Face Powder
In round attractive boxes, assorted tints, 8/- per gross

SPUN OINTMENTS

(Regd. Trade Mark.)

impalpable and absolutely uniform, are now the standard of quality.

And CREAMS of every kind for HOME and EXPORT trade.

Spun Ointments are the production of Shen Works only. All B.P. Ointments are now spun.

ROBERT BLACKIE,

WHOLESALE AND EXPORT MANUFACTURING CHEMIST,

Head Office, Mills and Laboratory—

SHEN WORKS, Tower Bridge Road, LONDON, S.E.

The SALVARSAN and NEO-SALVARSAN Substitutes—

Galyl
Hectine
Hectargyre

AMPSALVS. DIABETIFUGE. IODARGOL. URASEPTINE. MERSALV. SUPSALVS. BOUGIES. TAMPOVULES.

ELECTRIC COLLOIDS for Intravenous Injections.
Silver. Gold. Platinum. Selenium.

For Intramuscular Injections.
IODEOL (Electric Colloid Iodine).

For Urethral Injections.
IODARGOL (Special Colloid Iodine).

CHEMICAL COLLOIDS for Oral Administration.
BIOSULFOL: Colloid Sulphur (entirely absorbed).

For Intramuscular Injection.
CUPRASE: Colloidal Copper, reduced in the presence of Albumosic Acid.
Cuprase is the most successful Colloidal Copper in the medical treatment of Cancer.

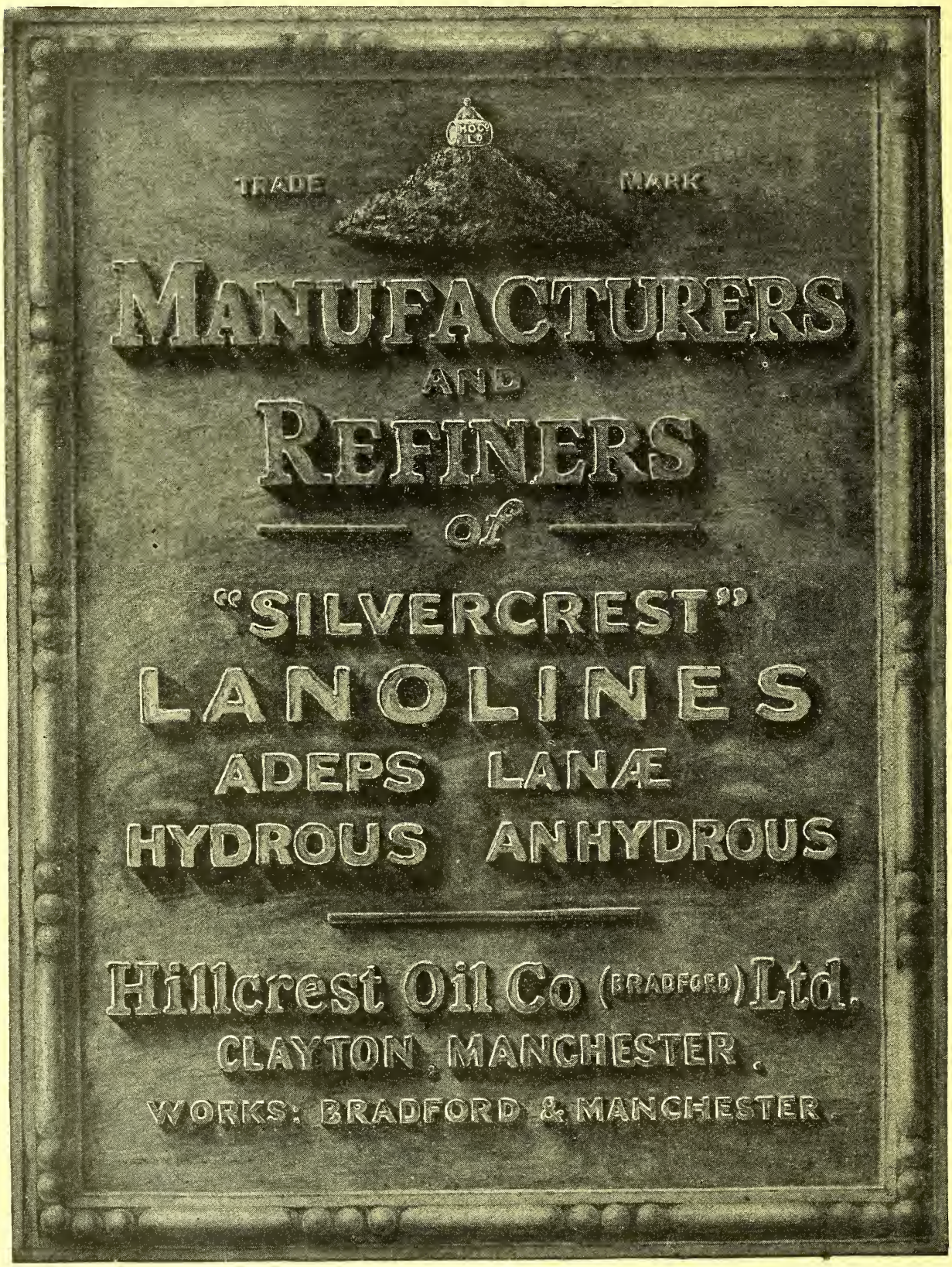
MAY BE EXPORTED WITHOUT LICENCE.

Sole Agents for the British Empire—
THE ANGLO-FRENCH DRUG CO., Ltd., Gamage Buildings, LONDON, E.C.
(Late M. BRESILLON & CO.)
Telephone: 1311 HOLBORN. Telegrams: "AMPSALVAS LONDON."

T. & H. SMITH LTD
MANUFACTURERS
OF
MORPHINE, CODEINE
AND ALL OPIUM PRODUCTS.
PODOPHYLLIN

SALICIN	CAFFEINE	ALOIN
STRYCHNINE	EMETINE	CAPSICIN
CANTHARIDIN	CHLOROFORM	GINGERIN
JALAP RESIN	THEOBROMINE	SCAMMONY RESIN

Blandfield Works, EDINBURGH. ***22 City Road, LONDON.*** ***37 Washington Street, GLASGOW.***


TRADE
MARK
MANUFACTURERS
AND
REFINERS
of
"SILVERCREST"
LANOLINES
ADEPS LANÆ
HYDROUS ANHYDROUS
Hillcrest Oil Co (BRADFORD) Ltd.
CLAYTON, MANCHESTER.
WORKS: BRADFORD & MANCHESTER.

Apologies.

87, Great George Street,
Leeds.

We, JOHN EDISON, LIMITED, HEREBY TENDER our humble apology to Messrs. Burroughs Wellcome and Company for employing in circulars, etc., their Trade Marks 'Tabloid' and 'Tabloids,' and regret the trespass upon their Trade Mark rights.

WE HEREBY AGREE to the publication of this apology by Messrs. Burroughs Wellcome and Company, and undertake to respect in future all Trade Marks owned by them.

Dated this 15th day of July, 1916.

(Sgd.) A. EDMONDSON,
Managing Director.

Witness:—
(Sgd.) N. Gibbins,
11, Cross Flats Row,
Leeds.

87, Great George Street,
Leeds.

We, JOHN EDISON, LIMITED, trading as Nurse Kaye-Edison, HEREBY TENDER my humble apology to Messrs. Burroughs Wellcome and Company for employing in advertisements, circulars, letters, etc., their Trade Marks 'Tabloid' and 'Tabloids,' and regret the trespass upon their Trade Mark rights.

I HEREBY AGREE to the publication of this apology by Messrs. Burroughs Wellcome and Company, and I undertake to respect in future all Trade Marks owned by them.

Dated this 15th day of July, 1916.

(Sgd.) A. EDMONDSON.

Witness:—
(Sgd.) N. Gibbins,
11, Cross Flats Row,
Leeds.

The Registered Trade Mark

'Tabloid'

is an arbitrarily coined word or brand which designates specifically that goods supplied under this brand are issued by

BURROUGHS WELLCOME & CO.

The sale of articles of any other manufacture, when the word 'Tabloid' is used in ordering, is an infringement and unlawful.

We prosecute offenders rigorously, in the interest of prescribers, dispensers, patients and ourselves.

BURROUGHS WELLCOME & CO., LONDON

G. 729

COPYRIGHT

TABLETS

Close Prices for Quantity.

PILLS

Contractors to H.M. War Office.

Write:=
H. & T. Kirby & Co. Ltd.,
Newman House, Belton Road,
Willesden Green, London. N.W.

Wire:=
Kirby Limited Willroad London
(3 words only.)

'Phone:=
Willesden. 1412.

Established 1866

The *Lancet* describes it as "Mr. Benger's admirable preparation."

BENGER'S

GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.

The *British Medical Journal* says: "Benger's Food has by its excellence established a reputation of its own."

FOOD FOR INFANTS

INVALIDS AND THE AGED.

Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A.
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal & Branches.

ON THE P.A.T.A.

TRY OUR
ZEPTO
DISPLAY

PER 4/6 DOZN

Sells remarkable quantities of ZEPTO in shortest time. No talk and trouble needed. In ten minutes it is ready for business in your window. In twenty your first customer will be in. This wonderful line gives 66⅔% minimum P.A.T.A. profit too!

P.A.T.A. 7½ EACH

GET TERMS NOW FROM

CHRISTY
OLD SWAN LANE
LONDON

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of eighteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

Subscription Rates.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6*d.*; Summer or Winter Number, 1*s.*; *Diary* 3*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12*s.* 6*d.*, franco.

Цѣна годового абонемента: Газета еженедѣльно и Дневникъ разъ въ годъ 12 шиллинга 6 пенсъ съ пересылкой.

Precio de suscricion annual: el periodico una vez por semana, y el agenda una vez por anno 12*s.* 6*d.*, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.
Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 30 (Series No. 1904), Vol. 88.

	PAGE		PAGE
Association Affairs	47	Insurance Act Dispensing	46
Bankruptcy Reports	44	Irish News	36
Births	38	Legal Reports	37
Business Changes	37	Marriages	38
Cape Pharmaceutical Society	34	Medical Gleanings	48
Chemists' Defence Association	35	Military Tribunals	34
Coming Events	40	New Companies	38
Corner for Students	45	Observations and Reflections	41
Correspondence	51	Personalities	48
Deaths	38	Pharmaceutical Society of Ireland: Council-meeting	40
Editorial Articles: Wines and Spirituous Medicines	42	Retrospect	52
Sale of Cocaine	43	Scottish News	36
Customs and Excise	43	Society of Chemical Industry: Annual Meeting	39
Electrolysis Patent	44	Trade-marks	33
English News	35	Trade Notes	45
European War	33	Trade Report	49
French News	37	Westminster Wisdom	44
Information Department	41	Wills	40

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(*From the "Trade-marks Journal," July 5, 1916.*)

Device composed of letters "C B"; for all goods (2 and 17). By Cookson, Budd & Co., Ltd., Dean Street, Newcastle-on-Tyne. 373,311/315.

Circular device including letters "S B" ("S B" disclaimed); for chemicals (1). By Spicer Bros. (Colonial and Foreign), Ltd., 19 New Bridge Street, E.C. 372,487.

Device of ryan dyeing cloth; for all goods (1). By the Lancashire Aniline Colour Co., Ltd., Barton Chemical-works, Trafford Park, Manchester. 372,997.

(*From the "Trade-marks Journal," July 12, 1916.*)

Heart-shaped device with words "HEART BRAND"; for chemicals (1). By Duckworth & Co., Manchester. 372,956. (Associated.)

"BACTO"; for all goods (1), and "DIFCO"; for goods (3). By May & Baker, Ltd., Battersea, S.W. 373,249/50 (Associated), 373,251.

"PARASITOX"; for chemicals (2), and "FLYTOX"; for medicinal chemicals (3). By Heppell & Co., 164 Piccadilly, W. 373,426/7.

"MANUTECT"; for all goods (2). By Society of Chemical Industry, Basle. 373,494/5.

European War News.

Enemy Businesses to bo Wound Up.

Heyl Bros., Ltd., 15 Newcastle Street, London, E.C., dealers in gum. *Controller*: A. E. Green, 100-104 Moorgate Station Chambers, London, E.C.

A. H. Nicholas & Co., Alpine Works, Windus Road, Stoke Newington, London, N., chemical dyers. *Controller*: J. W. Barratt, 19A Coleman Street, London, E.C.

Griesheim-Elektron, Ltd., 3 Thames House, Queen Street Place, London, E.C., and Manchester office, Trinity House, 119 Chapel Street, Salford, merchants in dyestuffs and chemicals. *Controller*, William Eaves, 15 Fountain Street, Manchester.

Prohibited Exports and Imports.

GERMANY.—According to a decree of July 15, the exportation of gelatin and gelatin-products (including full and empty gelatin capsules) is prohibited.

ITALY.—A general licence for the importation of all kinds of acetic acid, pumice-stone and pumice-powder from Italy has been given to the British Customs authorities.

UNITED KINGDOM.—It is notified, with reference to the list of goods prohibited to be imported into the United Kingdom, that the following rulings respecting the prohibitions have been arrived at by the Department of Import Restrictions: *Prohibited*—Olcine, stearine, sapolio (as soap). *Not prohibited*—Japan wax, acetic anhydride, barytes (sulphate or powdered), casein, caustic potash, sperm oil, oxalic acid, steatite, and talcum-powder.

Wounded Soldiers.

Forty wounded soldiers from the Southwark Military Hospital, East Dulwich Grove, were entertained on Saturday afternoon, July 15, by the staff of the Wellcome Physiological Research Laboratories in the extensive grounds of that institution. The entertainment was provided by members of the staff, and consisted of suitable sports, tea, light refreshments, and an open-air concert. Among the wounded were a number of bombers, whose skill at the "cocoanut shies" would have spelt ruin to the side-show as a commercial undertaking.

On Wednesday, July 12, the South-West London Pharmacists' Association took seventy-five wounded soldiers from the 3rd County of London Hospital to Ashtead by motor char-a-bancs. Despite the inclement weather the men had a real good time: a substantial meal was provided, which was much appreciated, and games of skill for prizes were enjoyed on the Downs. Many of the men were Colonials, one of whom said he had that day partaken of the best meal since he left Australia. Ladies did much to enhance the pleasure of the outing by the tactful manner in which they dealt with the Tommies.

Trade after the War.

The Prime Minister has appointed a Committee to consider the commercial and industrial policy to be adopted after the war, with special reference to the conclusions reached at the Economic Conference of the Allies, and to the following questions:

(*a*) What industries are essential to the future safety of the nation; and what steps should be taken to maintain or establish them.

(*b*) What steps should be taken to recover home and foreign trade lost during the war, and to secure new markets.

(*c*) To what extent and by what means the resources of the Empire should and can be developed.

(*d*) To what extent and by what means the sources of supply within the Empire can be prevented from falling under foreign control.

The Committee is composed as follows: The Right Hon. Lord Balfour of Burleigh, K.T., G.C.M.G. (Chairman), Mr. Arthur Balfour, Mr. H. Gosling, Mr. W. A. S. Hewins, M.P., Mr. A. H. Illingworth, M.P., Sir J. P. Maclay, Bart., the Right Hon. Sir A. Mond, Bart., M.P., Mr. Arthur Pease, Mr. R. E. Prothero, M.P., Sir Frederick H. Smith, Bart., Mr. G. J. Wardle, M.P., together with the following, who are presiding over Board of Trade Committees on the position of important industries after the war: Sir H. Birchenough, K.C.M.G., Lord Faringdon, Sir C. G. Hyde, the Hon. Sir C. A. Parsons, K.C.B., F.R.S., Lord Rhondda, Mr. G. Scoby-Smith, Mr. Percy Ashley, of the Board of Trade, and Mr. G. C. Upcott, of the Treasury, have been appointed Secretaries to the Committee.

Personal.

MR. J. HILL JOHNSTON, of the Royal Scots, a nephew of Mr. J. Rutherford Hill, has been wounded.

PRIVATE R. A. PADLEY, son of Mr. F. R. Padley, pharmacist, of Wooler, has been wounded in France.

Private T. Allen, who has been wounded in the recent fighting, was with Jewsbury & Brown, Ltd., Manchester.

Lance-Corporal Alexander Wilkie, of the Highland Light Infantry, formerly with a Galashiels chemist, has lost one of his feet as the result of a battle-wound.

Private W. O. Brennan, now in Beaufort War Hospital suffering from shrapnel-wounds in the right leg, was formerly employed by J. Woolley, Sons & Co., Ltd., Manchester.

Lance-Corporal H. L. Gee, of the Highland Light Infantry, who has been injured by a shell which wrecked his dugout, is the son of Mr. T. H. Gee, chemist and druggist, Chapeltown Road, Leeds.

Private G. E. Webster, of the Leeds "Pals" Battalion, and Private F. Aspin, of the 2nd/8th West Yorks, have been wounded. For many years prior to the war they were with Taylors' Drug Co., Ltd.

Sergeant A. A. Anderson, of the Royal Scots, who was severely wounded on July 1, has been admitted to a London hospital. He was with Oswald Robertson & Co., chemists and druggists, Bridge of Allan, before joining the Royal Scots.

Major Thomas H. Guest, York and Lancaster Regiment, is reported wounded and missing. He is the only son of Mr. Thomas Guest, medicated-lozenge manufacturer, Ancoats, Manchester, and prior to the war he was associated with his father's business. Major Guest is forty-one years of age, and served in the South African war.

Mr. J. E. Southon, son of Mr. J. E. Southon, chemist and druggist, 8 Leadenhall Street, E.C., has been gazetted a second-lieutenant in the 17th County of London Regiment. The young officer was in the Cadet Corps at the City of London School, where he was educated. After leaving school he was in business with his father, and joined the O.T.C. when war broke out.

Lieutenant Ronald Holt Preston, who has just received his commission and has been appointed Transport Officer to the 54th Infantry Battalion of the Canadian Army, is the eldest son of Lieut.-Colonel A. C. Preston, V.D., of Thomas Hodgkinson, Prestons & King, wholesale druggists, Bishopsgate, London, E.C. Lieutenant Preston served throughout the South African War, and received the Queen Victoria and King Edward medals and clasps. At the time he received his commission he was staff-sergeant-major of the Canadian Army Service Corps. Lieut.-Colonel Preston's youngest son, Captain Stanley Preston, is on the Staff in France.

Military Tribunals' Decisions.

The following are further cases of trade interest which have been heard since our last issue:

Beaconsfield.—Exemption was granted to Mr. R. W. Brooke, chemist and druggist, The Broadway.

Bedford.—Mr. H. Ashman, with Taylor, Braun & Flood, Ltd., was granted conditional exemption.

Blackpool.—Mr. Harry Dickinson, representative of Southall Bros. & Barclay, Ltd., manufacturing chemists, Birmingham, was granted conditional exemption.

Bromley (Kent).—Mr. H. H. Cuthbert, chemist and druggist, Beckenham Lane, was granted three months' exemption.

Castleford.—A month's exemption was granted to Mr. C. V. Flower, assistant with Mr. J. W. Clegg, chemist and druggist.

Clacton-on-Sea.—Conditional exemption was granted to Mr. George Cox, dispenser, employed by Mr. C. Bayley, chemist and druggist, Electric Parade.—Mr. J. H. Boothroyd, assistant to Mr. W. Mann, chemist and druggist, Pier Avenue, was granted temporary exemption.

Exmouth.—Mr. John Bickford, chemist and druggist, was granted conditional exemption.

Faringdon.—Conditional exemption in place of total exemption was granted to Mr. W. H. Cook, chemist and druggist, Faringdon, at the Berkshire Appeal Tribunal.

Faversham.—Six weeks' exemption was granted to Mr. F. W. Armstrong, chemist and druggist, with Mr. T. J. Thomas, chemist and druggist.

Frinton-on-Sea.—Conditional exemption was granted to Mr. W. S. Collett, manager for Mr. C. Bayley, chemist and druggist, Connaught Avenue.

Gillingham (Kent).—Mr. C. E. Beveridge, chemist and druggist, was granted conditional exemption, and is required to join the Volunteer Training Corps.

Grantham.—Conditional exemption was granted to Mr. G. E. Whysall, chemist and druggist.

Hersham.—Mr. A. B. Sherren, chemist and druggist, has been conditionally exempted.

Lewisham.—Mr. W. T. Tucker, chemist and druggist, Obelisk Buildings, Lewisham, was granted six months' exemption. The Military Representative wanted the condition imposed that Mr. Tucker joined a Volunteer Training Corps, but the Chairman said he would be of more use in his shop to supply medicines in emergency.

Littleborough.—Mr. G. H. Cockcroft, chemist and druggist, received conditional exemption.

London (City).—A carman, named Eke, employed by Thomas Hodgkinson, Prestons & King, wholesale druggists, Bishopsgate Street, E.C., was exempted as being in a certified occupation.—Mr. I. G. Rankin, of the Special Chemicals Co., was exempted, on the recommendation of the Royal Society, as being in a certified occupation.

Manchester.—Mr. John Bailey, assistant to Blain & Hankinson, chemists, Manchester, who appealed to the Limehurst Tribunal on conscientious grounds, was granted exemption on condition that he renders ambulance service one evening a week.

Melton Mowbray.—Mr. Jas. Attenburrow, chemist and druggist, who applied for exemption for his apprentice, was told that the young man could not be taken by the military authorities until his indenture expires.

Montrose.—Conditional exemption was granted to Mr. J. W. Plenderleith, chemist and druggist.

Newcastle.—The manager of the Iglodine Co., Ltd., was granted conditional exemption, and a month's exemption was granted to a warehouse assistant of Boots, Ltd.

Oxford.—Conditional exemption was granted to Mr. W. H. Pearson, chemist and druggist, director of the Oxford Drug Co., Ltd., and also to Mr. S. A. Cleaver, with Mr. F. L. K. Loxley, Ph.C., St. Giles's.

Romford.—Conditional exemption was granted to Mr. E. Cox, with Mr. T. England, chemist and druggist.

Westbury (Wilts).—Mr. E. A. Chard, The Pharmacy, received conditional exemption.

Insurance Dispensing Arrangements.—We understand that the Insurance Commissioners are asking for a complete list of chemists' shops in each Insurance area, with the numbers of assistants at present employed and the pre-war number; also the geographical position of such businesses.

Cape Province Pharmaceutical Society.

A General Meeting of the members was held at the Society's room, Darling Street, Cape Town, on June 15. The meeting inaugurated an entirely new departure, decided upon at the last Council-meeting, when it was agreed that, in order to make the meetings more attractive, debates and matters of general interest would be placed on the agenda. This no doubt accounted for the fuller attendance, when a very interesting and animated discussion took place, the subject of the debate being, *Is Retail Pharmacy Decadent?* The discussion was opened by Mr. D. L. Petrie, who went very fully into the subject. Several members joined in the discussion, speaking for or against, in most cases giving their experiences as apprentices as compared with the lot of the present-day apprentice. The discussion tended to prove that the present-day apprentice does not get the same hard training in pharmacy, nor does he acquire the practical knowledge of the routine of pharmacy. Several suggestions were made to remedy this, and finally it was decided to have a further discussion on the subject.—A week later (Thursday evening, June 22) the second of the Society's series of lectures was given by Mr. J. Hutcheon, M.A., F.R.S.G.S., at the Oak Hall Y.M.C.A., Cape Town. His subject was *Italy, the Land of Romance.* Professor Ritchie presided, and mentioned that the lecturer was opening up in Cape Town the new study of geography, which is a most fascinating subject. Italy is of interest, he added, to all historically, as she has contributed very largely to European civilisation. Italy is also the home of art, particularly as regards painting, sculpture, and music. A further tie now binds us to Italy, as she is one of our Allies. Mr. Hutcheon's lecture was followed closely by a large audience, who enjoyed the account of his visit to Milan, Genoa, Pisa, Rome, Pompeii, Naples, and Florence, while his humorous touches created much laughter. Mr. Hutcheon emphasised the utility of Esperanto, and suggested the formation of a South African Geographical Society and the organisation of geographical tours not only in Africa, but in Europe and America. Lantern-slides added to the interest of the evening. A hearty vote of thanks having been accorded Mr. Hutcheon, gramophone selections were given by Darter & Co. from Italian grand opera. A very interesting exhibition of the natural products of Italy, copies of works of art, and other matters of interest connected with the country were on view. The thanks of the Society are due to Messrs. McKillop for an exhibit of Italian marble; to Cartwright & Co. and Petersen, Ltd., for exhibits of natural products; to Mr. Nanucci for the loan of Italian flags; and to Darter & Co. for the loan of copies of works of art.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Birmingham.

The presence of the lady dispenser in the chemist's shop has given quite an impetus to the calling, and young ladies are applying regularly to the Birmingham University for guidance in the matter of qualification, and the Secretary (Mr. G. H. Morley) refers them to the local hospitals and dispensaries and to individuals who coach.

There seems to be a lot of rotten bottles about just now, which are causing much trouble. They appear to be of foreign origin, and when such things as N/1 alkali is put into them the liquid oozes through minute pinholes in the bottoms and sides. Why is this, and cannot we in England learn again to excel in glass-bottle making, and at a price to compete with the foreign makers?

Last week a gathering of friends and members of the local branch of the Society of Chemical Industry met to make a present to the Local Secretary (Mr. F. R. O'Shaughnessy) on the occasion of his marriage, and entertained him to dinner. Afterwards two young Russians—a chemist and an engineer—delighted the members with their chat on things in general and Royal porcelain made in the Czar's works at Petrograd in particular. Samples were exhibited and presented to each of the company. A subsequent examination of the wares showed them to be of excellent quality and quite equal to the German stuff.

The scheme whereby out-patients of the General Hospital, Birmingham, obtain their medicines from pharmacists at their own expense has now been extended to include the out-patients of the Queen's Hospital. The panel of pharmacists accepting service, besides all districts within the area of Birmingham, includes representatives from the following outlying districts: Bilston, Blackheath, Brierley Hill, Cannock, Darlaston, Dudley, Great Bridge, Langley, Oldbury, Old Hill, Shirley, Smethwick, Sutton Coldfield, Walsall, Wednesbury, West Bromwich, Willenhall, and Wolverhampton. If any pharmacists in the above-named districts not yet on the panel desire to participate in the scheme, or if any pharmacists in other districts are of opinion those districts can usefully be included in the panel-list, they should communicate with the Hon. Secretary, Mr. F. Smith, 221 Soho Road, Birmingham.

Leeds.

A firm of wholesale druggists is asking chemists for assistance in collecting red-poppy petals. There will be a great shortage of these if the present sunless weather continues.

The police are distributing this week notices from the Central Control Board that after August 7 medicated wines must bear a label stating the amount of proof spirit contained.

A week ago the local Panel Committee issued a new Insurance Pharmacopœia without any warning to the chemists, who were quite unprepared for it. Representations were made to the Insurance Committee, who have ruled that it will not come into force until the chemists have received further notice.

Liverpool.

Several pharmaceists' assistants have received notice to join the Army, but this does not indicate an abandonment of the arrangement to leave one man to each pharmacy. Not a single pharmacy, it is believed, will have to be closed.

In view of a vigorous winter session, to be inaugurated in October, the Executive of the Liverpool Chemists' Association is drafting a programme which it is hoped will include the names of a lecturer or lecturers from London. The visit of the Pharmaceutieal Conferenee next summer will be kept to the front by the President (Mr. W. P. Evans).

A gratifying improvement in the rate of transport of pharmacists' parcels between London and Liverpool is noted. In the early stress of the war as much as three weeks elapsed before parcels were forwarded. A return to delivery within twenty-four hours has been experienced this week. In short, "Urgent" has been restored to the bright lexieon of the railway companies.

The Liverpool Education Committee has given up fourteen elementary schools as auxiliary military hospitals, and offers two secondary schools for use during the holidays. In case of further accommodation being required the Committee have drawn the attention of the War Office to the number of large houses available for indefinite periods, which would be more convenient than schools for hospitals. Birkenhead has added Hemmingford Street School, a fine new building, and Wallasey its splendid new Town Hall, to the hospital list. Hanover Street houses are busy with supplies to these numerous hospitals.

Contraets for Drugs, etc.

Hemsworth Guardians.—Mr. G. Hodgson for drugs for three months.

Ludlow Board of Guardians.—Woodhouse & Son, chemists and druggists, for emulsion at 1s. 3*d.* per lb. and carbolic soap at 27*s.* 6*d.* per cwt.

St. Paneras Guardians: Hodgkinson, Prestons & King, 262 Bishopsgate, London, E.C., drugs.

War Office Contracts.

The following contracts were made during June: Apparatus, *x*-ray (term contract): F. R. Butt & Co., Ltd. Chloride of lime: United Alkali Co., Ltd. Dental instruments: S. Maw, Son & Sons. Disinfeetants (term contracts): Burt, Boulton & Haywood, Ltd.; Jeyes' Sanitary Compounds Co., Ltd.; Killgerm Co., Ltd.; McDougall Bros., Ltd. Disinfeetors: Thresh Disinfector Co. Fly-catchers: F. W. Hampshire & Co.; Kay Bros., Ltd.; Watson & Co. Medicines: Allen & Hanburys, Ltd.; Boots Pure Drug Co., Ltd.; The British Drug Houses, Ltd.; Burgoyne, Burbidges & Co.; Burroughs Wellcome & Co.; A. H. Cox & Co., Ltd.; Hough, Hoseason & Co.; Howards & Sons, Ltd.; H. & T. Kirby & Co., Ltd.; May & Baker, Ltd.; Parke, Davis & Co.; Standard Tablet & Pill Co., Ltd. Methylated spirit: B. Biggs & Co., Ltd.; Waters & Co., Ltd. Soda, washing: Brunner, Mond & Co., Ltd. Thermometers: Down Bros., Ltd.; A. Lee & Co.; C. F. Pizzala & Co.; J. T. Powell & Co.; G. H. Zeal.

Chemists' Defence Association, Ltd.

Immediately on the conclusion of the annual meeting of the Proprietary Articles Trade Association (see *C. & D.*, July 15, p. 49), the statutory annual meeting of the Chemists' Defence Association, Ltd., was held. The Chairman of Directors (Mr. J. G. Atkinson) presided. After feeling reference to the death of Mr. C. J. G. Bunker, the Chairman moved the adoption of the annual report, which, he said, showed the steady progress the Association is making in every direction. There is an increase in the membership, and the balance-sheet shows a most satisfactory state of affairs. Since the annual statement had been prepared, however, the directors have had a heavy claim to settle (over 600*l.* altogether), and their expenditure under the "claims" heading during 1916 will be considerably in excess of that mentioned in the present balance-sheet. The directors have recently added a new benefit to the other privileges enjoyed by members—namely, the assistance of the Association's solicitors in police-court cases brought under the Defence of the Realm Act so far as infringements of the lighting regulations are concerned. This had been done because it has been found that occasionally the authorities prosecute on frivolous grounds. Mr. Clarke seconded the adoption of the report, and Mr. Pickard supported. Mr. Sayers mentioned that he had had a correspondence with the authorities over the use of a Geneva cross. He has been informed that if the cross is made with curved lines and a green background is used, no exception to it would be taken. Mr. Kirkpatriek initiated a discussion on the samples of dispensed medicine to be taken under the National Health Insuranee Act, and suggested that the C.D.A. should protect members in every possible way in such circumstances. The Secretary (Mr. W. Johnston) stated that this was already done, and the Assoeiation has assisted several members who had got into diffieulties under the N.H.I. Act. Mr. Johnston warned members to be careful when dispensing to measure the bottles used, as several prosecutions had occurred through the fact that a wrong-sized bottle had been employed. After further discussion the report was unanimously adopted. Mr. John Keall and Mr. W. L. Currie were unanimously elected directors to fill the places rendered vacant by the death of Mr. Bunker and the resignation of Mr. Gilmour.

Merseyside Pharmaeists at Golf.

What it is hoped will prove to be a yearly golfing match was played on July 12, upon the invitation of Mr. William P. Evans (President of the Liverpool Chemists' Association), between teams of eight representing the Liverpool C.A. and the Birkenhead, Wallasey, and Wirral Assoeiation of Pharmaeists. The Chester course at Seafield was chosen, and among the Liverpool team was Mr. S. F. Alder, who won the eup on the same course in 1914 when the B.P. Conference was held at Chester. Leaving Liverpool in rain, the teams found fine weather at Chester. The weather held good until the singles had been played, but rain put

an early end to the foursomes. On the singles Liverpool won by six matches to two. Scores:

Liverpool.		Birkenhead, W., and W.	
W. P. Evans (3 and 2)	1	D. T. Williams	0
S. F. Alder (5 and 4)	1	J. Smith	0
John Bain (8 and 6)	1	F. C. Cooling	0
T. M. Lloyd	0	C. Wherley (6 and 5)	1
E. Bingham	0	— Margerison (7 and 6)	1
A. Fairbairn (8 and 7)	1	A. L. Rogers	0
D. H. Evans (2 and 1)	1	W. A. Wynne	0
T. H. Corbett (4 and 3)	1	C. E. Snape	0
Total	6	Total	2

Mr. Wm. Evans, who entertained the teams at tea and supper, received, on the motion of Messrs. Bain and Cooling, a vote of thanks. For the Red Cross Fund 2*l.* was collected at the table.

Miscellaneous.

The Girls' Drug Army was illustrated in the "Daily Sketch," July 19. "Trampling down camomile" was their occupation!

Early-closing Orders.—The Home Secretary has confirmed an Order for chemists and druggists at Hull to close at 8 P.M. on Monday, Tuesday, Wednesday, and Friday; 1 P.M. or 8 P.M. on Thursday; and 10 P.M. or 1 P.M. on Saturday.

Bleaching-powder Shipments.—At Hartlepool on July 14, four of the crew of the Dutch steamer *Nicolaas* were fined 10*l.* each, and a boy 3*l.* 10*s.*, with alternative imprisonment, for shipping bleaching-powder for exportation without authority. It was stated that it sells in Holland at 1*s.* 8*d.* per lb.

A Chemist's Collection.—The antique silver, drinking-vessels, glass, and works of art belonging to the estate of the late Mr. Robert Drane, the well-known Cardiff chemist, who died two years ago, were sold at Sotheby's, in London, recently. The sale occupied three days, and good prices were realised.

Poisonings.—The following cases have been reported since our last issue: A West Ham man died from drinking spirit of salt, which he is stated to have mistaken for eucalyptus oil.—A cattle-dealer, named McGarry, died in Richmond Hospital, Dublin, from poisoning due to drinking Jeyes' fluid while under the influence of alcohol.

Alfred Cox, a worker with Spencer, Chapman & Messel, Ltd., chemical-manufacturers, Silvertown, had the middle finger of his left hand crushed while at work, and under the Workmen's Compensation Act Judge Graham, K.C., at the Bow County Court on July 17, approved of an agreed award of 45*l.* and the cost of amputating the finger.

Henri Eric Caft, a Swiss, was on Wednesday at Norwich sentenced to a month's hard labour for obtaining by false pretences a quantity of morphia and cocaine, value 7*l.* 6*s.* 8½*d.*, from Alexander Colin Brown, chemist, Thorpe Road. A similar sentence was imposed on him for stealing a gold watch, gold monocle, and a plated tea-service from the house where he had lodged.

The Theobromine Case.—When Robert Allan was charged at the London Sessions, on July 18, with stealing two cases of theobromine (*C. & D.*, July 15, p. 36), Mr. Huntly Jenkins, who prosecuted, said he would not call evidence. The defendant had told a straightforward story, and investigation of the case had shown that his statement was consistent with the facts. He was accordingly discharged.

Association of British Chemical Manufacturers.—The subscription to this newly formed Association has been fixed at 25*l.* minimum and 250*l.* maximum, according to the capital of the company or firm. We are asked to state, however, that a member representing any company or firm will only have one vote irrespective of the amount of subscription paid. The Acting Secretary is Mr. T. F. Burton, Broadway Chambers, Westminster, S.W., who supplies copies of the constitution and rules on application.

Venereal Diseases.—The Local Government Board have issued regulations to local authorities regarding the organisation and provision of facilities for the diagnosis and treatment of venereal diseases. In this way some of the recommendations of the Royal Commission on Venereal Diseases are to be carried out. The medical officers of health are to be consulted regarding the arrangements. The treatment provided must be available for all comers irrespective of place of residence or means. The clinics are not to be designated as for venereal disease, and nothing is to be done to distinguish the patients who attend them. Further, every effort is to be made to secure the co-operation of the private practitioner of each area. The supply of salvarsan is to be limited to those doctors who are known to have had experience in the administration of the drug. The Board will pay 75 per cent. of the cost of approved schemes for diagnosis and treatment.

Sale of Cocaine.—At Marlborough Street Police Court, London, W., on July 18, William Brown (21), tailor; Georges Wagnière (18), porter, a Swiss; Harry List (18), tailor; Frederick Freemuller (17), butcher; Ivan Benjamin (20), tailor, a Russian; Mark Cohen (46), dealer, a Russian; and Samuel Heller (23), cabinet-maker, were charged, under the Defence of the Realm Act, with being concerned in the unlawful sale of cocaine to a member of the Forces. The cocaine is stated to have been sold to Canadian soldiers in pill-boxes at 2*s.* 6*d.* each. The Magistrate sentenced Cohen and Heller to three months' imprisonment, with hard labour, and the other prisoners to two months' imprisonment, with hard labour, and said that certificates of expulsion would be issued against Benjamin, Cohen, and Wagnière.—On July 19, at the same court, two men named Lyons and Mitchell were each sentenced to six months' imprisonment with hard labour and fined 100*l.*, with the alternative of three months' hard labour in default of payment, for supplying cocaine to the seven prisoners referred to above.—A woman (22) was sent to prison for fourteen days for a similar offence.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The following are the results of the recent examinations:

Registered Druggist Examination.—The following passed: James Peter McGrath, Dublin; Michael Francis MacNamara, Tuam. Two candidates were rejected.

Pharmaceutical Licence Examination.—The following passed: Alexander Templeton, Portaferry; John McDowell, Belfast; Rosalie Mary Byrne, Ballinacargy; Alphonsus Thornton, Carrickmacross; Ronald Bruce Brown, Dublin; Patrick Kearney, Glenties. Fourteen candidates were rejected.

Pharmaceutical Assistant Examination.—The following passed: James Richard Bunyan, Listowel; Patrick Stanislaus Flynn, Newry. Three candidates were rejected.

Brevities.

Mr. Joseph A. Moonan, Bushmills, formerly assistant at Monaghan Medical Hall, has enlisted in the R.A.M.C. and been promoted a sergeant.

Mr. Mario McNally, R.D., has given up his business at Redmond's Hill, Dublin, where he has been for about ten years, and has joined the R.A.M.C.

At the last meeting of the South Infirmary Committee, Cork, Mr. P. J. Fielding, Ph.C., Patrick Street, was declared contractor for the coming year for medicines and surgical appliances.

The new premises of Mr. W. R. Browne, Ph.C., 154 Newtownards Road, Belfast, had a narrow escape from fire last week. The outbreak destroyed the shop next door and severely damaged Mr. Browne's shop, part of the roof falling in. Fortunately Mr. Browne has not had in his new stock.

Several men connected with the trade were wounded recently in France. Among these are Private James Cherry, who was before the war an apprentice with Mr. I. W. Parker, Ph.C., Enniskillen; Sergeant James F. McAllister, Ph.C., who served his time with the late Mr. O. Ternan, Enniskillen; Private Albert Longmore, who was an apprentice with Mr. T. A. Roberts, Ph.C., Shankill Road, Belfast.

At Dungannon Petty Sessions last week, T. W. Reynolds, Ltd., druggists, were charged with receiving and dealing in spirits without an Excise licence. The company obtained a consignment of Gilbey's whisky for a local publican at a nominal profit of 4*s.* on six dozen. As this scarcely paid for the packing and carting of the empties it was contended that only a technical breach of the law had been committed. A fine of 100*l.*, reduced to 25*l.*, was imposed, with a recommendation that it be further reduced to 10*l.*

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Digitalis is growing in great abundance on the Inverness-shire hills at present.

Acute anterior poliomyelitis, commonly known as "infantile paralysis," is epidemic in Aberdeen.

Mr. James Dargie, analyst, Dundee, has now been appointed county public analyst for Fifeshire, at a salary of fifty guineas, with a fee for each analysis.

The Board of Agriculture for Scotland, having had its attention directed to the possibilities of using as emergency dyes plants used for dyeing in the Highlands in place of German dyes, has decided (*a*) To collect samples of the fifty odd specimens at present being actually used. These specimens to undergo an analysis; (*b*) To send a botanist to the Highlands to gather other plants reputed to have dyeing properties, and such others as he considers worth testing; (*c*) All the specimens to be analysed by a chemist who is an expert in dyes. [We may recall that notes on Highland dyes, giving the names of plants and colour of dyes produced, was given in the *C. & D.* at the beginning of 1915.]

Glasgow and the West.

A feature of recent bottle collections is the number of poison-bottles gathered.

Mr. Geo. Sutherland, chemist and druggist, Dumbarton, has been added to the Dumbartonshire Insurance panel.

Heavy business has been done during the week-end in tooth-brushes, pastes, soaps, sponges, etc. Although in the works there is no holiday meantime, nevertheless many business people are sticking to the old "Glasgow Fair."

Mr. Jones, Clerk to the Glasgow Burgh Insurance Committee, has issued a lengthy report on the treatment of phthisical patients at sanatoria. Medical practitioners are to be asked to recommend sanatorium treatment to all patients who give indications of being tubercular.

French News.

(From the "C. & D." Paris Correspondent.)

SCIENTIFIC APPARATUS.—An exhibition of French-made scientific and laboratory glassware, organised by the Society of Encouragement of National Industry, was held in Paris last month. It included thermometers of various kinds, *x*-ray tubes, chemical and optical glassware, and microscopes, as well as filters, laboratory earthenware, and weighing-apparatus, and was intended as a demonstration of what can be produced in France in the way of scientific apparatus which was formerly imported.

THE PARIS SOCIETY OF PHARMACY continues to hold its monthly meetings regularly, but the absence of the younger men at the Front is felt in scientific circles, as elsewhere. At the June meeting the Secretary regretted to announce the retirement of M. Lafon from active membership owing to failing health. He was nominated an honorary member of the Society. The President (M. Cousin) informed the Society that M. Fourneau, wounded during military service, had been awarded the Cross of the Legion of Honour. The Society voted him its congratulations and best wishes for a speedy cure. A paper, by M. Meillère, on the dermatitis to which workmen in chemical-factories were often subject closed this short sitting.

PROPRIETARY MEDICINES.—At a recent meeting of the Academy of Medicine M. Meillère, head pharmacist of the Necker Hospital, who was, like M. Bouchardat (a retired professor of the Paris School of Pharmacy) and M. Bourquelot (Professor of Galenical Pharmacy at the Paris School), a member of the Committee appointed by the Academy to study the question of publishing formulæ for proprietary medicines, presented the Report of that Committee, which considered that the problem might be solved without special legislation. Secret formulæ presented several difficulties, but it was suggested that the real remedy would be the official registration of the formulæ by the authorities charged with the application of the Adulteration Act. Doctors and others interested could then be allowed access to this register. M. Hayem feared that such registration would be popularly considered to guarantee the advertised virtues of the product. M. Meillère thought not. After further discussion the Report was referred back for reconsideration.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

THE SILK TOILET CO., 76 Red Lion Street, Holborn, W.C., are shortly removing to larger and more convenient premises, Nos. 8 and 9 in the same street.

THE NATIONAL DRUG CO., LTD., whose headquarters are Ryott House, New Oxford Street, W.C., have opened a branch establishment in Prince of Wales's Road, Kentish Town, N.W.

Legal Reports.

Meat-bone Meal Dispute.—In the City of London Court, before Judge Atherley-Jones, K.C., on July 17, Hollinghurst & Co., Ltd., chemical merchants and importers, 112 Fenchurch Street, claimed against Lang & Sons, Ltd., chemical-manufacturers, Hounslow, to recover 31*l.* 14*s.*, balance of 131*l.* 14*s.*, for meat and bone meal and bone-flour supplied. After a long hearing his Honour gave judgment for the plaintiffs for 14*l.* 1*s.* 3*d.*, and allowed the defendants 10*l.* on a counterclaim, without costs on either side.

Boric Ointment.—At the North London Police Court, before Mr. Hedderwick, on July 14, Mr. H. P. Everett, chemist and druggist, 59 Southgate Road, Islington, N., was summoned, under Section 6 of the Sale of Food and Drugs Act, 1875, for selling boric ointment deficient in boric acid to the extent of 16.7 per cent. Mr. A. M. Bramall appeared in support of the summons; Mr. Kirby was for the defence. Mr. Bramall explained what the Pharmacopœia requires, and formal evidence as to the purchase having been given, Mr. Everett, in the witness-box, stated that he purchased the ointment from Butler & Crispe, and that the tin in which it was supplied to him bore a label containing the letters B.P., by which he understood that the ointment corresponded with the formula of the British Pharmacopœia. The case was adjourned for four weeks, as was also another case against Mr. William Felton, chemist and druggist, 253 Balls Pond Road, who was summoned for selling boric ointment deficient in boric acid to the extent of 12.7 per cent. Mr. Kirby said that in this case there was a dispute as to the correctness of the analysis. The portion left with the defendant had been analysed and found to be of full strength, so he asked that the third portion of the sample should be sent to Somerset House for analysis. Mr. Bramall: If the Government chemist says that the third portion is correct, it will not prove that the analysis of the first portion is wrong—that is, if there has been improper mixing. Mr. Hedderwick: Where two analysts disagree it is for the Government analyst to decide. A summons was granted against the wholesalers.

Chemists and Aerated-water Bottles.—In Edinburgh Sheriff Court on July 14, Sheriff Guy gave judgment in an action by William R. Plummer, sole partner of R. & G. Hay, beer-bottlers, Edinburgh, craving to restrain Alexander F. Dawson, chemist and druggist, 14 Deanhaugh Street, Edinburgh, from putting disinfecting-fluid or other liquid into bottles sent out by the complainers to their customers, and embossed "R. & G. Hay, Huntly Street, Edinburgh," and known by the respondent to be the property of the complainers. After a proof which lasted nine days the Sheriff has found that the complainers have failed to prove that the respondent on any occasion filled bottles belonging to the complainers, or known by him to belong to them, with disinfecting-fluid or other liquid, and that the complainers are not entitled to an interdict. He therefore has absolved the respondent and allowed him costs. His Lordship added to his judgment a note on the facts and law of the case. In the course of this he said that the action was based solely upon property in the bottles which the complainers said they never sold and the property in which they never parted with. The complainers' case seemed to be that in a particular department of business in which bottles were required, they, by embossing the names on the sides of their bottles and by establishing the bottle exchange and by conducting their business upon what they call a deposit principle, made a law for themselves. It was admitted that in no transaction with members of the general public was there any express stipulation that the bottles were only lent, and that the small charge on the bottle was not a price in a sale; nor was it ever stipulated in any transaction with members of the public that the contract, which was primarily one of sale of beer or aërated water, was also one of loan of the bottle. Consequently, no member of the public could know whether the bottle which he got when he bought beer or aërated water was his bottle, although he paid something for that bottle, or whether he was simply getting it on loan. His Lordship found that the complainers had on various occasions sold bottles with their name, etc., embossed thereon, and in his opinion, even if that had not been definitely proved, their case would have failed upon general grounds. They sent out their bottles, and they made a charge for them. He also mentioned the case of Wilson *v.* Shepherd (*C. & D.*, 1912, II., 875), after which all chemists in Edinburgh, including the respondent, had received a circular intimating that a judicial determina-

tion had been made on this question of the proprietorship of bottles. His Lordship held that that was not a proper judicial determination of the question, so he thought that circular went for very little indeed. He did not think it fair to impose upon the respondent a special duty with regard to the complainers when he was under no such duty with regard to others in the same trade.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

W. A. Somerville, Ltd. (P.C.).—Capital, 300*l*. Objects: To carry on the business of chemists, druggists, drysalters, etc. The subscribers are A. W. Varley, drug-store proprietor, and T. Aspinall, chemist, both of Liscard. R.O., 229 Rake Lane, Liscard, Cheshire.

White Power Syndicate, Ltd. (P.C.).—Capital, 20,000*l*. Objects: To take over from J. C. Blanch the benefit of certain inventions relating to dyes and explosives, and to carry on the business of dye and explosive manufacturers, chemists, druggists, drysalters, etc. The subscribers are J. K. White and E. W. King. Solicitors: 8 Bedford Row, W.C.

Seebolin Co., Ltd. (P.C.).—Capital, 1,000*l*. Objects: To adopt an agreement with H. E. Hope and A. Cawood to carry on the business of manufacturers of and dealers in agricultural and horticultural specialities, seed-dressings, insecticides, sheep-dip, chemicals, weed-killers, etc. The subscribers and first directors are H. E. Hope and A. Cawood. R.O., 22 Billiter Street, E.C.

Henri's Patent Cattle Feed Co., Ltd. (P.C.).—Capital 5,000*l*. Objects: To take over and carry on the business of cattle food and medicine manufacturers carried on by the executors of C. G. Howard at Hull as "Henri's Patent Cattle Feed Co." The first directors are: K. C. Howard (permanent governing director, special qualification 500*l*. ordinary shares), C. M. Howard, and Maude Howarth-Booth.

New England Supply Co., Ltd. (P.C.).—Capital 2,000*l*. Objects: To take over the European Agency of the New England Supply Co., of Rhode Island, U.S.A., and various other agencies carried on by F. J. de Giers at 26-30 Salisbury House, E.C., and elsewhere in England and abroad. The business includes trading as manufacturers, importers, and brokers of and dealers in foreign and colonial produce, butchers, milk sellers, chemists and druggists, drapers, haberdashers, printers, publishers, stationers, paper manufacturers and dealers. The first directors are F. J. de Giers, T. C. Doonan, and T. R. Hayward. R.O., 6 Finsbury Square, E.C.

Liebig's Extract of Meat Co., Ltd.—An additional dividend of 10 per cent. and a bonus of 5*s*. per share, both free of income-tax, on the ordinary shares for the year ended March 31, 1916, is to be declared, subject to confirmation at the annual meeting.

Companies which may be Wound up.—Three months from July 14 the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register, and the companies will be dissolved: Britannic Laboratories, Ltd.; Chemical Products Syndicate, Ltd.; Clenzall Fluids, Ltd.; Cyanide Vacuum Filter Co., Ltd.; Direct from the Springs, Ltd.; Electric Ozone Syndicate, Ltd.; Radium S.I.A.M.T., Ltd.; and Scott's Drug Co., Ltd.

Phillips & Co., Ltd., Bombay.—The annual meeting was held on June 24. Mr. C. Glasgow (chairman of directors) presided, and, in moving the adoption of the report and accounts, said that the trade conditions of the year had been of quite an exceptional character; some shareholders might have considered a larger dividend permissible, but the company preferred to safeguard their future position as far as possible by building up a reserve fund at a favourable opportunity, as had now occurred. The general manager (the Hon. Mr. J. D. Jenkins) said that certain shareholders had sent in recommendations to the effect that the proposed dividend of 11¼ per cent. should be increased to 15 per cent., but he explained that, while it was perfectly possible for the directors to have recommended a larger dividend, in their opinion it was wiser to conserve their resources against the possibility of contingency.

Portuguese Olive Oil.—The total production in Portugal in 1915 amounted to 27,965,078 litres, and the stocks on March 20, 1916, were 33,904,475 litres.

Births.

Arnold.—At 18 King's Terrace, Southsea, on July 13, the wife of Stanley Arnold, chemist and druggist, of a son.

Bristow.—At 21 Brecknock Road, London, N., on July 13, the wife of H Bristow, pharmacist, of a son.

Metcalfe.—At 6 Sherwood Grove, Nab Wood, Shipley, on July 12, the wife of W. E. Metcalfe, Ph.C., of a daughter.

Marriages.

Davies—Daniel.—At the Presbyterian Church, Brighton, on July 13, Brinley T. Davies, pharmacist, 29 Vernon Terrace, Brighton, to Grace Mary, only daughter of Mr. George Daniel, pharmacist, Wood Green, N.

Judge—Baker.—At St. George's, Headstone, Middlesex, on July 12, Edgar Wilfred Judge, pharmacist, Bourne, Lincs, to Constance Sylvia, eldest daughter of Mr. and Mrs. W. Baker, Roxborough Road, Harrow-on-the-Hill.

Lang—Rennie.—At Glengarnock, on July 12, William Lang, pharmacist, Paisley, to Annie Thomas, second daughter of the late Alexr. Rennie and Mrs. Rennie, Kirklandhill Cottage, Glengarnock.

Wood—Forfar.—At St. John's Church, Clapham, S.W., on July 8, Frankland Victor Wood, chemist and druggist, to Ethel Matilda, second daughter of Mr. and Mrs. Hugh Forfar, "Kinross," 164 Clapham Road, S.W.

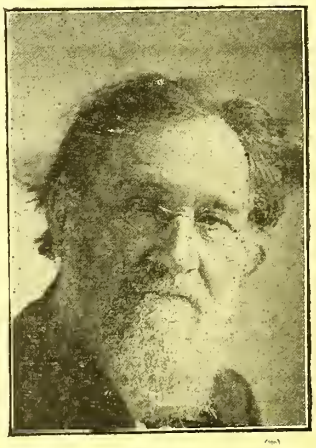
Deaths.

Hole.—At his residence, on July 13, Mr. E. Nelson Hole, of Moore & Hole, turpentine and resin importers, Billiter House, Billiter Street, London, E.C.

Horsley.—Sir Victor Horsley, F.R.S., F.R.C.S., the eminent surgeon, died at Amara, Mesopotamia, on Sunday, July 15, from heat stroke. He was one of the Army consultants in medicine and surgery, and was in his sixtieth year.

Lewis.—Recently, at Fishguard, Mr. Thomas Lewis, pharmaceutical chemist, aged sixty-five.

Metchnikoff.—At the Pasteur Institute, Paris, on July 15, Professor Elie Metchnikoff, aged seventy-one. He was born at Ivanavka, Russia, and took his degree at the Kharkoff University, afterwards becoming a professor of zoology at Odessa and at Petrograd. Leaving Russia in 1882 he went to Messina and turned his attention to microbiology. As a consequence he developed his theory as to the *rôle* of blood phagocytes in combating disease. It is on this theory that the modern treatment with serums is based. In 1888 he went to the Pasteur Institute, Paris, where he has ever since worked on various researches. His recent work on the cause of senile decay is well known. He found that the decomposition set up by bacteria in the colon promotes those changes in the tissue, including hardening of the arteries, which lead to senility. To check these harmful bacteria he advocated the use of soured-milk, the acid condition thus brought about in the colon being unfavourable for the development of bacteria. The cause of grey hair was another of his researches, and he also devised a method of destroying venereal infections. Professor Metchnikoff was an honorary D.Sc. of Cambridge and a foreign member of the Royal Society. He was awarded the Nobel prize in 1908 for his researches on immunity.

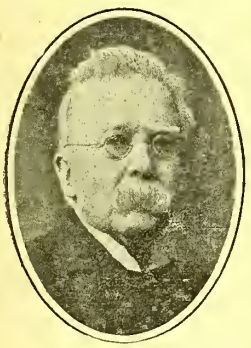


Professor Metchnikoff.

PEEBLES.—At Ancrum Road, Lochee, on July 20, Mr. Thomas Smith Peebles, chemist and druggist. Mr. Peebles had been in somewhat indifferent health lately, and on Wednesday evening, while walking in Barrack Park, Dundee, he collapsed, was taken to his home in Lochee, where he died a few hours later. He was a younger brother of Mr. John Peebles (Kirkcaldy), and was apprenticed to him while he was at 103 High Street, Lochee. Subsequently he became dispenser at the Royal Infirmary, Dundee, and from there passed the Minor examination in April 1888, taking over his brother's Lochee business later. He was about fifty-six years old, and is survived by Mrs. Peebles and a family, the oldest son being a medical officer in the R.A.M.C.

SHAW.—At Moss Lane, Ripley, Derbyshire, on July 5, Mr. Alfred Shaw, chemist and druggist, aged seventy-four. Mr. Shaw acted as sub-postmaster for over fifty years.

TAYLOR.—At Exeter, last week, Mr. James Taylor, aged eighty-two. Mr. Taylor had been with Evans, Gadd & Co., Ltd., for sixty-four years, retiring some four years ago. For the last ten years of his service he travelled in the West of England, and his cheery personality was in consequence well known to pharmacists in that district. He was held in the highest esteem by the directors and staff of Evans, Gadd & Co., Ltd. Mr. Taylor was formerly in the Cathedral choir, as he had a good alto voice.



MR. JAMES TAYLOR.

SHEPHERD. — At 6 Bon-Accord Crescent, Aberdeen, on July 12, Mr. George J. Shepherd, aged seventy-two. He was the son of Mr. James Shepherd, of Souter & Shepherd, wholesale druggists and drysalters, Aberdeen, and after leaving the Aberdeen University became associated with his father's business, continuing it with success until his retirement several years ago.

Died on Service.

CAVELL.—Rifleman J. R. Cavell, the Queen's Westminster Rifles, youngest son of the late Mr. John Cavell, chemist and druggist, Broad Street, Whittlesey, has died in hospital at Rouen of heart-failure, at the age of twenty-four. He was drafted abroad only a fortnight before his death.

KEMPSEY-BOURNE.—Second-Lieutenant F. L. Kempsey-Bourne, son of the late Mr. Kempsey-Bourne, chemist and druggist, West Bromwich, has been killed in action. He was a chartered accountant, and enlisted on the outbreak of war.

MCINTOSH.—Private J. McIntosh, Buckie, was killed on July 2. He served his apprenticeship with Mr. John Webster, chemist and druggist, Buckie.

MILLER.—Private Leslie Austin Miller, son of Mr. C. B. Miller, Ph.C., Graaff-Reinet, Cape Province, South Africa, was killed in action in France on June 6. He was twenty-five years of age.

SUTHERLAND.—Killed in action on June 26, Private Adam Hopkirk Sutherland, of the Royal Engineers. He was a chemist and druggist, and was an apprentice with Mr. William Ogston, Union Street, Inverness, after which he went to Aberdeen and Edinburgh, passing the Minor examination in April 1910. Then he returned to Mr. Ogston, with whom he remained as an assistant until March of this year, when he enlisted.

WATSON.—Mr. Ernest J. W. Watson, chemist and druggist, Driffield, was killed recently. Shortly after passing the Minor in July 1915 he responded to the call for chemists for the Royal Engineers, and became a sergeant.

WHITE.—Second-Lieutenant Thomas White, who has been killed in action, was the younger son of Mr. J. White, Knock, Belfast. He served his apprenticeship with Thos. McMullan & Co., Ltd., druggists, Belfast, and afterwards became secretary of C. R. Harker, Stagg & Morgan, Ltd., manufacturing chemists, London, of which his uncle, Mr Thos. White, is a director. He obtained a commission in the North Lancashire Regiment in 1915, and went to the Front in April 1916

CORRECTION.—Mr. F. W. Barnes has been officially informed that his son, Cyclist Lionel F. Barnes (see *C. & D.*, July 8, p. 40), is quite safe. His death was reported officially instead of that of F. Barnes, who was in the same battalion, but is no relation.

Society of Chemical Industry.

Annual Meetings.

THE youngest Section of the Society, the Edinburgh and East of Scotland Section, were the hosts of the annual meetings and Congress which opened in the University Union, Edinburgh, on Wednesday, July 18. Members were present from all parts of the country, and the pharmaceutical element was well represented. Dr. Charles Carpenter (President of the Society) occupied the chair. Lord Provost Sir Robert K. Inches at the commencement of the proceedings extended to the members a hearty welcome to the city. The first business was to receive the Council's report and the accounts for the year, which were adopted.

REPORT OF COUNCIL.

The number of members is now 4,059, against 4,017 last year. Mention was made of the members who have died during the past year; these included Professor Raphael Meldola, Sir Henry E. Roscoe, Mr. I. Levinstein, and Mr. N. H. Martin. In the list of Chairmen of Local Sections who have been elected was the name of Mr. T. H. Wardleworth, who becomes the Chairman of the Canadian Section. Among the work done during the year it was mentioned that the classified list of members is nearly completed, while other matters which it had been proposed should be taken in hand are to be left to the newly formed Association of British Chemical-manufacturers. A request made to the Advisory Council for Scientific and Industrial Research for a grant towards the expenses of a research on cellulose was refused. Reference was made to other Committees upon which the Society is represented, and to the changes in the Council. The retirement of the Secretary (Mr. Cresswell) was also mentioned, and the appointment in his place of Dr. J. P. Longstaff.

Dr. Carpenter was re-elected President for a second year.

PRESIDENTIAL ADDRESS.

Dr. Carpenter, in the course of his address said that foremost among their thoughts in Edinburgh must be consideration of the relationship between the educational and the industrial problems. Three aspects of that seriously concerned them. First he would place the need of recognition by the professors of learning of the necessity to the country of a cultured industrialism. Second, the acceptance by industry of the faith that only through science could it develop and prosper. Lastly, but not least important, the understanding by statesmen that neglect of these principles would be as deadly to the nation as disregard of its health or morals. The suggestion had been put forward that the mental characteristics of our race did not fit it to become expert in the science of organic chemistry. In his judgment that was a fallacy. He believed there was no reason why we should not attain eminence therein as we had in seamanship or shipbuilding. It would be asked, Would our manufacturers avail themselves to the full of skilled chemists; were they not already too often disappointed by results? Certainly they would be again and again if they only called them in when in trouble and expected them to wave a magician's wand successfully over their recalcitrant processes. There were two main difficulties to be encountered in transferring laboratory-work to the large scale. One was its economies; the other its practicability. Most people were aware that to extract gold from sea-water was a proposition financially faulty. Chemists needed too often to be reminded that, though a process might be pretty, it did not attract the manufacturer unless it was sound. As part of the training of chemists careful attention should be given to the matter of costs by setting problems for research in which definite prices were allowed for the raw materials to be used. In addition to this, values should be fixed for the various operations involved, such as distillation, ordinary or vacuum, filtration, crystallisation (whether from water or other solvents), centrifuging, and so on. The chemist would thus be trained in the laboratory to the importance of price questions which were certain to arise in the course of his work. He might also be counselled to listen patiently to the so-called practical man, whether leading hand or otherwise, who might be entrusted with the charge of carrying on the large-scale work. The other important factor in setting up large-scale and modern processes was the increasing need for the engineer to take an important share in their development. Not only must the process itself be theoretically, but also industrially, sound. A third factor to be considered in the pursuit of efficiency was the workmen. Dr. Carpenter then referred to original work, saying that they wanted physical science, of which chemistry was but a part.

THE SOCIETY'S GOLD MEDAL.

It was then intimated that the Council had unanimously decided to award the gold medal of the Society to Mr. F. W. Cross, F.I.C., for his great services in industry, especially concerning his work on paper. Mr. Cross desired recognition that Mr. A. J. Bevan had been associated with him in his work, but the Society had only one medal to bestow, and they had bestowed it on the one person whom they believed to be primarily responsible. The President then presented the medal to Mr. Cross, who suitably replied.

On the motion of Professor H. E. Armstrong, F.R.S., London, a vote of thanks was cordially awarded to the President for his address and for his conduct in the chair during the year.

It was agreed to hold the next annual meeting at Birmingham.

By invitation of the Edinburgh and East of Scotland Section the members were entertained to luncheon. A Congress was held in the afternoon, and a social meeting in the dining-hall at night. This was followed by a lecture of an interesting character, by Dr. Walter Rosenhain, F.R.S., on "The Making of a Big Gun." The lecture was illustrated with cinematograph-films and lantern-slides.

Pharmaceutical Society of Ireland.

Council-meeting.

THE Council met at 67 Lower Mount Street, Dublin, on July 11, Mr. James Tate (President) in the chair. Others present were Mr. G. D. Beggs (Hon. Treasurer), Dr. Chas. J. B. Dunlop, Dr. J. A. Walsh, Messrs. Thomas Batt, Wm. Doig, Thomas N. Moffitt, John Smith, D. M. Watson, A. Owen Wells, W. F. Wells, and P. N. White, J.P.

DIED ON ACTIVE SERVICE.

Mr. BEGGS referred to the death on active service in Mesopotamia of Mr. William Frederick Wells, son of the late Mr. James Wells, L.P.S.I., and brother of Mr. A. Owen Wells. Mr. Wells had been in the Surveyor's office, G.P.O., and had volunteered for service after the outbreak of the war. Mr. Wells, Mr. Beggs said, had done his duty and had answered the call. He moved a sincere vote of condolence with his relatives, which the PRESIDENT seconded, the vote being passed in silence, the members standing. Mr. A. OWEN WELLS acknowledged.

CARBOLIC PREPARATIONS.

The REGISTRAR (Mr. A. T. Ferrall) read a letter from the Clerk of the Privy Council stating that the Committee of the Privy Council would sit in Dublin Castle on July 4 to consider the matter of the sale in Ireland of carbolic preparations for agricultural and horticultural purposes, and that it would be open to the Pharmaceutical Society of Ireland to submit any representations they might desire to make, and that the Society might be represented by counsel if they so desired. The Registrar said that Messrs. Wells and Watson had attended the meeting of the Committee of the Privy Council referred to, and that Mr. Meeke, their solicitor, with Mr. Hanna, K.C., as counsel, was also present.

Mr. WELLS, Mr. WATSON, Mr. OWEN WELLS, and the PRESIDENT then explained what had taken place, and it was agreed, on the motion of Mr. WELLS, seconded by the TREASURER, that a copy of the newspaper containing the report of the proceedings of the Tipperary County Council in regard to Lowry's application, and the evidence of Mr. T. W. Russell before the Joint Select Committee of the House of Lords and the House of Commons on the Poisons and Pharmacy Bill, and the particulars of a case of poisoning by Jeyes' fluid referred to by Mr. Watson, be sent to Dublin Castle.

NOTIFICATIONS OF DEATHS.

The following deaths were notified: John Allen, chemist and druggist, Dinard, and Henry Hamilton, R.D., Swinford, co. Mayo. The Registrar was also directed to remove from the Register the name of Samuel Bewley Pim, R.D., Springfield, Clonmel, a letter marked "Dead" having been returned by the P.O.

CHANGES OF ADDRESS.

Communications were received from the following notifying changes in their addresses:

Miss V. C. F. Smith, Ph.C., to Camelot, Semaphore Road, Guildford; Mr. F. E. Preston, Ph.C., to 70 Rathmines Road, Dublin; Mr. W. P. J. Gannon, Ph. C., to The Medical Hall, Maryborough; Mr. P. J. Rice, Ph.C., to the Central Hotel, Miltown Malbay, co Clare; Mr. Thomas Gleeson, Ph.C., to The Modern Pharmacy, The Square, Skibbereen, co. Cork; Mr. C. O'Neill, chemist and druggist, to c/o Maxwell, Greer & Co., Ltd., Foyle Street, Derry; and Mr. S. Orr, R.D., to 62 Bow Street, Lisburn.

APPOINTMENT OF EXAMINER.

Mr. John McBirney, M.P.S.I., was re-elected an examiner in pharmaceutical and general chemistry (Licence examination).

MEMBERSHIP.

On the motion of the PRESIDENT, seconded by Mr. BEGGS, the following were elected as members:

Mr. Wm. Rocke Browne, Ph.C., Clonard Pharmacy, Falls Road, Belfast; Mr. James Duggan, Ph.C., 63 St. Lawrence Road, Clontarf, Dublin; Mr. Fredk. Armstrong Ferguson, Ph.C., High Street, Lurgan; Mr. John Joseph FitzGibbon, Ph.C., 2 Sydenham Terrace, Ballinacurra, Limerick; Mr. Thomas Johnston, Ph.C., Market Square, Lisburn; Mr. Michael James Mullan, Ph.C., 42 Thomas Street, Armagh; Miss Rose Teresa O'Connor, Ph.C., 17 Main Street, Cavan; Mr. George Shannon, Ph.C., The Donegal Pharmacy, The Diamond, Donegal; Mr. Hubert Sweeny, Ph.C., 19 Clarendon Street, Londonderry.

On the motion of Mr. G. D. BEGGS, seconded by Mr. W. F. WELLS, the following were nominated for membership:

Mr. Max Greenbat, Ph.C., 12 Upper Camden Street, Dublin; Mr. John Healy, Ph.C., 81 West Street, Drogheda; and Mr. Henry Joseph Manley, Ph.C., The Medical Hall, Ballybay.

NOMINATION AS ASSOCIATE DRUGGIST.

On the motion of Mr. DOIG, seconded by Dr. WALSH, Mr. Robert Courtnay, R.D., Hamill's Medical Hall, Laurence Street, Drogheda, was nominated for election as an Associate Druggist.

REPORTS FROM COMMITTEES.

Reports from the following Committees were received and adopted: The Law Committee, Certificates Committee, Declarations Committee, House Committee, and School Committee.

LADY CANDIDATES.

The REGISTRAR stated that a record number of ladies had presented themselves for the Preliminary examination which had taken place the previous week. Of the twenty-seven candidates eleven were ladies. Three of the eleven ladies passed and twelve of the sixteen young men passed.

Wills.

MR. EDWIN THOMAS PALMER, chemist and druggist, Aylesbury, Bucks, who died on May 12, left estate valued at 2,409*l.* 3*s.* 5*d.* gross, with net personalty 2,365*l.* 18*s.* 5*d.*

THE LATE ANDREW RUDOLPH OTTO BRUCKMANN, drug-merchant, 70 Woodside Park Road, North Finchley, and 34 Fenchurch Street, E.C., left estate of the gross value of 40,619*l.* 17*s.* 7*d.*, the net personalty being 38,201*l.* 4*s.* 2*d.*

Coming Events.

Sunday July 23.

Pharmacists' Volunteer Training Corps, Millbank School, Westminster, S.W., at 9.30 A.M. Staff parade, followed at 11 A.M. by company drill and lecture on War Sanitation. The bacteriology classes on Wednesdays and Thursdays are cancelled until further orders.

Wednesday, July 26.

Manchester Pharmaceutical Association, Chess Club Rooms, 65 Market Street, at 3.15 P.M. Discussion on the formation of a federation of Pharmaceutical Associations in Lancashire.

"CHEMISTS' WINDOWS."—An illustrated treatise on the art of displaying pharmaceutical and allied goods in chemists' shop-windows, with chapters on ticket-writing, the mechanics of moving devices, and business-promoting accessories. Contains 216 pages and 200 illustrations. Price 3*s.* 6*d.*, by post 3*s.* 9*d.*, from the *C. & D.* Book Department, 42 Cannon Street, London, E.C., or leading wholesale houses.

THE PROBLEM OF CANCER is always with us. We know nothing for certain as to its exact etiology, and though surgery can accomplish much if the case is seen early, we have no satisfactory treatment for those cases in which surgery is not available. The matter is of great importance, for the number of patients suffering from cancer seems to be definitely increasing, and the whole of this increase cannot be explained away by greater accuracy of diagnosis and record.—*Lancet.*

Observations and Reflections.

By Xrayser II.

The Pharmaceutical Society

is supposed to be democratic; its Council is fond of posing as a representative body. But, as Mr. Noble said at last week's meeting, co-optation is not compatible with democracy; it is a device for checking democracy, and tends inevitably to an oligarchical or aristocratic form of government. Within the last few weeks the Council has co-opted two members, one of whom had just been rejected by the constituency, while the other is practically unknown to it. The choice of Mr. Gibson was accepted without demur, as it was felt that his exclusion from the Council was unintentional —a mere blunder due to our absurd method of election. But what shall be said of Mr. Guthrie's co-optation? Nothing, of course, against Mr. Guthrie himself, but this must be said: that, occurring when it does, immediately after an election at which another man had received nearly 2,000 votes, it is a slap in the face for our "democrats"; and that the choice of a Scotsman when the chief problem of pharmaceutical politics is the position of the English panel chemist is a fresh illustration of the Council's infinite capacity for doing the wrong thing.

The Pharmaceutical Adullamites

held their revival service according to programme, their cave being the *sanctum sanctorum* itself, that home of lost causes, as someone has called it, at 17 Bloomsbury Square. It says a great deal for the commonsense of London pharmacists that only fifty, including, I suppose, the official element and the Press, were prepared to waste an afternoon in a wild-goose chase. The account of the meeting makes it clear that, like all true Adullamites, the speakers are far from agreement as to the sources of their discontent and how the trouble is to be cured. So far as I can see, one speaker alone touched the spot, and she was a woman. While we mere men talk platitudes about philosophy and progress, intuitive woman went straight to the point with unerring aim and found a true diagnosis of the situation. However much we may dislike to admit it, Miss Buchanan was right in saying that so long as pharmacy is a trade as well as a profession, and so long as there are men in it who want to be traders as well as those who aspire to "recognition," "social status," and *id genus omne*, just so long must pharmaceutical education be a compromise. This is a very bitter pill, and it will require a good deal of salivation before some of our leaders swallow it, but I am inclined to think that the process of deglutition has already made a beginning.

Mr. Kirkby's Paper

on "The Outlook in Pharmacy" was so full of excellent things, and breathed so fine a spirit, that one hesitates to criticise it, even where one cannot agree with the writer. I should hesitate the more had not Mr. Kirkby himself unconsciously supplied me with an answer to his argument in favour of an immediate advance in pharmaceutical education as a purely business speculation, which is the point on which I disagree with him. He argues that if we educate ourselves for higher work than we as yet enjoy it will assuredly fall to us, and we shall be repaid all the cost of time, labour, and money. The supply of motor-cars, he says, creates a demand for motor-cars, and the supply of educated pharmacists will have the same effect. But how does this accord with our experience since 1868, of which Mr. Kirkby had previously reminded us? We then began to educate ourselves for the position we now occupy, and in the teeth of much opposition we have won results which Mr. Kirkby himself declares to be "almost negligible." It is true he puts the blame on pharmacists themselves, but how unjustly is evident when he tells us in what respects we have failed. It was an antecedent condition to our receiving any direct benefit at all from our self-solicited education that we should neither encroach upon the province of the doctor nor violate the sacred principles of free trade. Does Mr. Kirkby really suppose that our desire to have cheap assistants had any appreciable influence on the result? Is he not putting the cart before the horse? "Motor-cars," indeed! The motor-car maker has not such professional and trade jealousies to face as those which hamper us. I am the last person in the world to say anything against education (it seems, indeed, to me almost sacrilege to recommend education for ulterior purposes), and I do not deny that individual pharmacists often find education to have the promise of superior success in business as well as in character; but looking at the matter from a purely business point of view, and having past experience in mind, I strongly advise pharmacists to make sure of a substantial *quid pro quo* before subjecting themselves to any further compulsory burden of this kind.

The Second Annual Report

of the Pharmaceutical Committee for the County of London is in substance a fairly satisfactory document, and where it is not so the fault does not lie with the Committee, but it is not well written. It is, we may suppose, a joint composition, and we do not look in such for elegance of style (Cobbett used to draw his examples of bad English largely from the King's Speeches in Parliament), but a pharmaceutical body ought not to write sentences that cannot be grammatically construed.

"Which, if proved by the Pharmaceutical Society by July 1 to be insufficient, the difference between .8*d.* and the proved figure would be paid retrospectively from January 1, 1916."

"The Pharmaceutical Committee still adhere to their objection of the principle."

"Where the word 'any' appears in large type, and the proviso inserted that the deposit on bottles will be refunded *if returned in a clean condition*, . . ."

"For which they are specially trained and are called upon to perform."

These are instances of loose, slovenly, and incorrect writing of which any schoolboy might be ashamed, and others, as bad or worse, might be added to them. The vice of the sentence "It is anticipated that the period required for final settlement of 1915 accounts will be a very much shorter one than was the case for settlement of 1914 accounts," is more radical and less easy to correct; it runs through the whole report.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

17/27. Aethoform.
17/30. Brayshaw's salt.
16/51. "Kur-i-can."
18/52. "Bromweed" remedy for asthma, bronchitis, etc.
19/59. "Inecto" hair-colour.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

Acid bulbs, hermetically sealed, filled with sulphuric acid, 250/49
"Curasol" socks, 7/57 and 232/64
"Dayfield" body-shield, 237/14
Fraser's corn-plane, 239/16 and 251/71
Gee's tooth-powder, 251/39
Hudson's vegetable leaflets, 19/11
Instant postum, 256/37
Little's Oriental balm, 6/7
"Louene," 257/58
Morrhuol, Chapoteaut's, 14/18
Morse's, Dr., India root pills, 11/65
"Nujol," 1/14
"Paralax," 251/31
"Peerless" spray, 12/70
"Radiol," 19/60
"Reudel" bath-salts, 9/43
Rice's, Dr. patent truss, 109/1
"Rough-on-Rats," 9/49
Safrol importers, 16/50
"Sanoid" suspensory bandages, 19/61
"Sylo" thermometers, 251/28
Teething necklaces (Gehrig's pattern), 256/10 and 5/6
Valentine's walnut stain, 14/16
"Vaporal," 2/22
"Villacabras" water, 240/50
"Vitadatio," 3/58
Willow ointment-boxes (substitute), 246/66
"Woods' great peppermint cure," 237/41

"SANITAS"

DISINFECTANTS

(Fluid, Powder and Soap)

"Sanitas Fluid" No. 2 (Crude).
Non-poisonous, disinfectant and deodorant.
"Sanitas-Bactox."
Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas-Okol."
Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas Sypol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formic Sulphugators."
"Sanitas Formitas Outfits."
"Sanitas Formigators."
"Sanitas Drain Testers."
"Sanitas Polishes."
"Sanitas Distemper," for walls.
Peroxide of Hydrogen (Kingzett's Preserved.)

Kingzett's Patents

The "SANITAS" CO., Ltd.,
Locksley Street, Limehouse, London, E.

BRITISH
ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E.

"PYLITNA" POWDERS

The Internal Specific for Hæmorrhoids.

30/- doz. delivered. 3 free boxes on orders of 1 doz; also 1 extra for Cash with order (direct)—16 in all, on the understanding that window or counter show is given. Retail under P.A.T.A. @ 3/- Box.

G. S. MUMFORD & SONS, FARRINGDON RD., LONDON.

PHARMACEUTICAL FORMULAS. (9th Ed.) 10/-, by Post 10/6.
ART OF DISPENSING. (9th Ed.) 596 pages. 6/-, by Post 6/5.
CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/9.

THE CHEMIST AND DRUGGIST, 42 CANNON ST., E.C.

SUPPORT YOUR COLONIES.

THE FINEST
COD LIVER OIL
IS
MUNN'S NEWFOUNDLAND
In 25-gallon tin-lined Barrels.

Samples and Prices from the Agents:
CHARLES LANE & SONS,
7-8 Idol Lane, LONDON, E.C.

BRITISH
THYMOL
Contracts can now be booked ex the new crop.
ESSENTIAL OILS
H. RUBECK, DISTILLER OF ESSENTIAL OILS, Established 1856.
59 MARK LANE, LONDON, E.C.
Works: ROTHERHITHE, S.E.

"A revolution in the art of Urine Testing."—*Medical Press & Circular.*
ENDOLYTIC TUBES
"The Laboratory in the Waistcoat Pocket."
Wholesale Terms on application to the Sole Proprietors:
FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Wines and Spirituous Medicines.

We indicated last week that the Order by the Central Control Board is not framed in a clear manner. Consequently we have been flooded this week with inquiries regarding it, particularly in respect to the conditions upon which spirituous medicines are to be sold in future. The queries come from well-known pharmacists and business houses, and they deal with various points in regard to genuine medicinal preparations which are not used as intoxicants. To publish these now might simply alarm many people in regard to the legality of selling the articles; it is better, on the whole, that retail vendors of medicines should adhere to the conditions of sale that have been recognised by the Excise authorities. Everyone in pharmacy is aware that the sale without a spirit-licence of spirituous preparations which are *quasi*-medicinal, but are really used as alcoholic beverages, is illegal. This has been the condition for many years as regards Indian brandy that is fully alcoholic, and the Excise authorities placed Eau des Carmes and certain other carminative preparations in the same category, a spirit-licence being required for sale, although the patent-medicine licence only was previously required. We presume that the Central Control Board simply want to ensure as regards spirituous medicines that well-known Excise conditions are maintained. As to medicated wines, a deputation representing the manufacturers was received by the Board on Wednesday, Mr. McKenna (Secretary of the Proprietary Articles Section of the London Chamber of Commerce) introducing representatives of Wincarnis, Hall's Wine, Vibrona, Glendinning's Wine, and others. The purpose of the deputation was to show the Board that owing to retailers throughout the country having stocks of the wines, unless some provision is made for the retailers labelling these wines in a modified way with the proportion of proof spirit that they contain, a great deal of trouble will be created. They advised the Board to allow such stocks to bear a label on the *outside* of the package, and that the sale of such stocks labelled in this manner should be authorised for three months until November 7. We understand that the Board gave a sympathetic hearing to the appeal, and a modification

of the official order will be issued in a few days, so that existing stocks may be saleable.

We observe that our medical contemporaries refer to the Order, and "The Lancet" points out that the statement as to the percentage of alcohol being mentioned in terms of proof spirit will convey to most people an impression that the wines are stronger in alcohol than they are really. The "British Medical Journal" states that by this method of regulating the sale of medicated wines "the opposition any proposed legislation for effecting such reforms would have encountered from interested quarters is entirely thwarted." We presume that this means approval of back-stair methods of bringing about changes desired by minorities. "It will be interesting to see," adds our contemporary, "how far the sales of such wines as those affected by the Order will be maintained when the purchaser can see for himself what a strongly alcoholic liquor he is obtaining."

The Sale of Cocaine.

We give a short report on p. 36 of the prosecution of seven men who received sharp sentences at a London police-court for selling cocaine to soldiers. The prosecutions were taken under the Defence of the Realm Act, and infringement of the Regulations (*C. & D.*, May 20, p. 49) is the offence which the prisoners committed. The punishment is more severe than could be inflicted under the Pharmacy Act, 1868, where the maximum fine for a first offence under Section 15 is 5*l.*, and under Section 17 the penalty is reducible. This is probably the reason why proceedings were taken under the Regulations. We think that every endeavour should be made to trace the source whence these miscreants obtained the cocaine which they sold. The Magistrate made the remark that "there is need for further legislation, and it is worthy of consideration whether the Legislature should not increase the term of imprisonment to which offenders are liable." The day afterwards the persons who supplied the cocaine by wholesale were severely sentenced. It is of interest to all connected with pharmacy to note that none of the prisoners is connected with our business, which is something that has grown up with the knowledge of the police. Most of the newspapers are writing upon the subject and calling for further State restriction. It will suffice to quote what "The Times" said on July 20:

"We understand that the Home Secretary has decided to take immediate action in Parliament to deal with the mischievous traffic in cocaine to which 'The Times' has persistently directed the attention of the authorities, notably in a leading article on July 13 last. Sir Edward Henry, Chief Commissioner of the Metropolitan Police, has made strong representations on the subject to the Home Department. Major-General Sir Francis Lloyd, commanding the London District, has also borne testimony to the evil results of the cocaine-habit among soldiers."

Coming as this does after sentences of six months' imprisonment and fines of 100*l.* have been inflicted, we should think that this will stop the business. In any case we trust that the Pharmaceutical Societies will see to it that the interests of registered chemists and druggists are safeguarded. Their careful regard for statutory obligations has proved the efficiency of Pharmacy and Poisons law for everything except criminal procedure.

Customs and Excise.

Thanks to the war the annual Report of the Commissioners of Customs and Excise comes to us about a year late. We received at the beginning of this week the Report for the year ended March 31, 1915, and a great deal of it refers to matters that have already been published in another form. For example, in the *C. & D. Diary*, 1916, p. 367, are given the British import-duties and the amounts collected in the year which ended on March 31, 1915. The Report now issued does the same, but the 1913-14 figures are put alongside those for 1914-15; gross, drawbacks, repayments and due to Isle of Man, and net Exchequer revenue being given for each year, an added column showing the increase or decrease of Exchequer revenue in the latter year. We have for many years published the figures in regard to medicine stamp-duty and the numbers of licences issued annually. When our 1916 *Diary* went to press all the figures for 1913-14 and 1914-15 were not available, but they are given in the Report now received. We incorporate them in our *Diary* table, although in the official Report they are given in two tables (Nos. 60 and 79):

Years ended March 31	England and Wales		Scotland		Great Britain.
	Medicine-stamps	Licences	Medicine-stamps	Licences	Medicine-stamps
	£	No.	£	No.	£
1902–3 ...	331,086	33,401	2,285	2,965	333,371
1903–4 ...	321,172	35,446	2,274	3,016	323,446
1904–5 ...	329,171	36,999	2,268	3,130	331,439
1905–6 ...	321,543	37,668	2,569	3,166	324,112
1906–7 ...	324,180	38,166	2,926	3,187	327,106
1907–8 ...	330,735	39,023	3,407	3,249	334,142
1908–9 ...	312,204	39,262	3,285	3,301	315,489
1909–10 ...	310,203	39,113	2,911	3,300	313,114
1910–11 ...	322,696	39,430	2,950	3,267	325,646
1911–12 ...	324,861	39,848	2,996	3,283	327,857
1912–13 ...	325,420	39,849	2,899	3,269	328,319
1913–14 ...	357,570	39,914	2,807	3,242	360,377
1914–15 ...	331,033	39,492	2,744	3,239	333,777

The receipts from licences in 1914-15 were 10,686*l.*, of which 9,876*l.* was from England and Wales and 810*l.* from Scotland. In 1910-11 there were 42,697 licences in Great Britain, these yielding 10,673*l.* The yields were, in each succeeding year, 10,781*l.* in 1911-12, 10,780*l.* in 1912-13, and 10,791*l.* in 1913-14. We have frequently pointed out that revenue figures for medicines vary in a peculiar manner, two or three years showing steady increases, then there is a drop, but the growth is on the whole upwards. The above table shows this sufficiently. Since October 20, 1915, the duties have been doubled, and we may expect a revenue of about half a million from stamps alone, and in subsequent years the revenue will increase. There is little else in the Report that calls for comment now, and to quote figures would be futile. In the week we have ascertained that we are spending six millions per day on the war. This is equal to less than a fortnight's Customs and Excise duties and taxes in 1913-14! Yet we are all cheerful, or mostly so, and hope that this war will end the unbusinesslike fashion of settling international disputes.

"Diseases and Remedies."—*P. D. P. S. I.* (125/9) writes: "Many thanks for the new edition. 'Dentistry for Druggists' chapter contains most valuable information, and the book generally is far beyond my expectation."

Thymol from Horsemint Oil.—For several years the Department of Agriculture has been conducting experiments with horsemint (*Monarda punctata*) as a source of menthol, and state that the yield of thymol per acre should be for the first year a little less than 13 lb. and for succeeding years a little less than 20 lb.

It is Announced by the Parliamentary Secretary to the Board of Trade that the question of granting some concession to meet existing difficulties in regard to goods from Japan of which the importation into this country is prohibited is receiving careful attention, and he hopes shortly to be in a position to make a statement on the subject.

An Electrolysis Patent.

An application was heard at the Patent Court, on July 20, for a licence to use Patent 11693 of 1910, "Improvements in or relating to the electrolysis of liquids," belonging to Dr. Jean Billiter, Vienna. The case was heard before Mr. W. Temple Franks (Comptroller) and Sir Cornelius Dalton. The applicant was Miss E. J. Smith, Chemical-works, Disraeli Road, Willesden, N.W., who explained that she desired to use the Billiter patent for the manufacture of caustic potash from potassium chloride, which was to be used as the raw product in making permanganate of potash. In reply to the Comptroller, Miss Smith said she was prepared to make half a ton of the product per week if she obtained permission to use the patent. Asked in regard to the royalty applicant would pay, Miss Smith pointed out that this is difficult to fix, because the patentee does not give sufficient details in the specification of the current required or the yield, and therefore a considerable amount of experimental work will be needed before the cell can be worked. In reply to Sir Cornelius Dalton, Miss Smith said that the gas-engine and dynamo which would be required would probably cost 130*l.*

Mr. Tennant, who represented the patentee, suggested that the dynamo and gas-engine would not be used for this purpose alone.

Miss Smith replied that the process would be a continuous one. In reply to Sir Cornelius Dalton, Miss Smith said she is making resorcin and beta-naphthol. In fixing the royalty basis, she pointed out that she was not proposing to sell the caustic potash.

Mr. Tennant said he thought a licence had already been granted; but the Comptroller said no record of this exists at the Patent Office.

Further conversation took place as to the royalty basis. Sir Cornelius Dalton suggested 2*d.* in the lb. on the potassium permanganate produced, but it was pointed out that this would work out unfairly when the price—at present inflated—drops to pre-war values. Miss Smith suggested that the opposition should make an offer as a basis, but Mr. Tennant explained that his position was not really representative. Eventually the suggestion which was agreed on was 1 per cent. on the sale price of the permanganate.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

The Sale of Cocaine.

The Home Secretary announced in the House of Commons on July 20 that he is proceeding to obtain an extension of the regulations, to enable the Government to control the traffic in and sale of cocaine generally.

Retail Traders and the Postponed Holidays.

The Home Secretary, in the House of Commons on July 17, urged the desirability of retail traders keeping their shops open on August 7 and 8—the Bank holiday which has been postponed on account of the need for munition-works not being stopped.

Nestlé's Milk.

Mr. Harcourt informed Mr. J. G. Butcher, M.P., on July 18 that the Nestlé and Anglo-Swiss Milk Co. is a Swiss concern, and its interests in enemy countries are relatively small, nearly the whole of its output being produced in the United Kingdom or in neutral countries.

Medicines for Insured Persons.

In the House of Commons on July 13, in the course of a long series of questions to the Chancellor of the Exchequer, Mr. Handel Booth, M.P., inquired whether the Treasury Committee on National Health Insurance has considered the question of medical service and the supply of drugs and medicines to insured persons. Mr. McKenna replied that at the present time no such inquiry is in contemplation.

British Dye-industry.

Replying to Sir Edwin Cornwall, in the House of Commons on July 19, Mr. Harcourt stated that the number of shares in British Dyes, Ltd., applied for at the date the company went to allotment was 630,000, and this number had increased by June 21 last to 841,000. The erection of extensive new plant for the production of intermediate products and finished dyes is being proceeded with as rapidly as is possible in existing circumstances, and the monthly output of finished dyes, though seriously restricted by the shortage of essential materials, is now double that of May 1915, when the company took over the works of Read Holliday & Sons. The whole question of the future of the British dye-industry is receiving the earnest attention of his Majesty's Government.

Hospitals and Spirit-duty.

In the House of Commons on July 17, Sir Philip Magnus, M.P., asked the Chancellor of the Exchequer whether the Committee appointed to consider the question of relieving hospitals from the payment of duty on alcohol used for the purposes of the hospital has yet reported, and when he proposes to take action on the decision at which the Committee has arrived.—Mr. McKenna replied that the Committee has reported, and its report is now under consideration. He hopes to be able to come to an immediate decision on the recommendations.

[Our Parliamentary correspondent learns that the Committee referred to was presided over by Mr. Fitzalan Hope, M.P. The question was repeatedly brought to the notice of the Treasury by Sir P. Magnus, Mr. W. C. Bridgeman, Mr. Glyn-Jones, and other members. Although the recommendations made to the Treasury do not go as far as might be desired by some, they at any rate go a long way towards meeting the grievance complained of. The other members of the Committee were Sir A. Tedder, Sir James Dobbie, Mr. Bunbury (of the National Insurance Commission), Mr. F. A. Hocking, Ph.C., of the London Hospital), and Mr. Craig, of the Treasury (Secretary). The question has proved to be a most complicated one, and has engaged the close attention of the Committee for some time past.]

Bankruptcy Reports.

Re William George Hornsey, 191 Romford Road, Stratford, Dealer in Disinfectants, etc.—At the London Bankruptcy Court last week Mr. Registrar Brougham granted an order of discharge subject to a suspension of two years.

Re George Shilliam, 67 Warwick Street, Leicester, Chemist's Assistant, late of 52 Checkett's Road, Leicester, grocer and beer-retailer, and formerly carrying on business as a druggist at High Street, Ibstock, as Claude & Co.—It appears from the Official Receiver's statement that the debtor owes 111*l.* 5*s.*, and the assets are estimated at 12*l.* Debtor is thirty-six years of age, and commenced business as a druggist at Ibstock in November 1911 with a capital of 10*l.* In December 1915 he was insolvent, closed the shop, and removed to Leicester, taking with him the remaining stock and the fittings, value about 5*l.*, and 30*l.* in cash. He then took the grocery and off-licence business, and the tenancy terminated in June 1916. He is now employed as a chemist's assistant at 35*s.* a week.

Re George Hamar Jones Cullwick, 80 Carlton Hill, Sneinton, Nottingham, Chemist and Druggist.—A meeting of creditors of this debtor was held at the Nottingham Official Receiver's office on July 13. The liabilities were estimated at 2,913*l.* 14*s.* 9*d.*, of which 2,899*l.* 4*s.* 11*d.* is expected to rank against the estate, and there was a deficiency of 2,624*l.* 5*s.* 3*d.* The Official Receiver reported that the debtor, aged fifty-six, originally commenced business on his own account at Southampton in 1883, but after about five years' trading he had, owing to ill-health, to dispose of it for 800*l.*, out of which he cleared his liabilities and had about 400*l.* surplus cash. He then resided for some time at Bittern, near Southampton, living on his capital. In 1893 he purchased a chemist's and wine-and-spirit merchant's business in Pembroke Dock, and in 1897 it was disposed of to a limited liability company he formed, and for which he acted as secretary and manager. Later he also converted the chemist's business into a company, becoming managing director. Both concerns ultimately went into liquidation, which involved debtor in heavy liabilities, resulting in bankruptcy. He recommenced business at Carlton, in 1911, and was successful until last September, when the war affected it. The estate was left in the hands of the Official Receiver.

It is Now Established that medical practitioners who obtain information in their professional capacity as to the commission of a criminal abortion are under no duty of any sort or kind to divulge that information to the authorities, and that their duty to their patients enjoins them to preserve professional confidence and secrecy.—*British Medical Journal.*

Trade Notes.

CHEMICAL STONEWARE of the acid-proof variety is a speciality of Fucrst Bros., 17 Philpot Lane, London, E.C.

FEATHEREDGE RUBBER SPONGES.—Markt & Co. (London), Ltd., 98-100 Clerkenwell Road, London, E.C., are offering to the wholesale trade rubber sponges in six sizes.

PHOTOGRAPHIC WORK.—Developing and printing are undertaken by Mr. Chatham Pexton, 46 Gray's Inn Road, London, W.C. For printing art Velox only is used.

VOLEATED OXYGEN JUJUBES.—Parker, Belmont & Co., 32-34 Theobald's Road, London, W.C., announce that the sale and manufacture of voleated oxygen jujubes are discontinued.

THE HERB-GROWING ASSOCIATION, in an advertisement in this issue, is offering calamus-root, black-bryony root, peppermint, colchicum-corm, spearmint, rose-petals, and belladonna-leaves.

BRITISH-MADE SALICYLIC ACID meeting British Pharmacopœia characters and tests is offered by E. T. Pearson & Co., Ltd., manufacturing chemists, London Road, Mitcham, who will furnish samples and quotations to wholesale buyers.

SUMMER LINES.—Alkia saltrates, Reudel bath saltrates, and Kalsel are salines offered by the Saltrates Co., 214 Great Portland Street, London, W. The retail prices are protected under the scheme of the Proprietary Articles Trade Association.

ARTIFICIAL MUSK.—Mr. A. W. Schwarz, Chemical-works, Altstetten-Zurich (London agents, Felice Bonaventura & Co., Chesterfield House, 98 Great Tower Street, E.C.), ask us to call attention to the fact that in describing muse ambrette in their advertisement the word "Ambrettol" was used in error. This word is the registered trade-mark of another Swiss manufacturer.

WAR PRICE-LIST.—Mr. Chas. Philip, chemist and druggist, 23 High Street, Herne Bay, whose Chemists' Pricing Guides are now well known, has issued a "Standard" retail price-list of war-affected drugs, constructed on the same principles. The prices are determined by definite rules at fixed percentages of profits. In addition to drugs sold loose, there are separate lists of packed drugs, compressed tablets, "tabloid" products, bottles, and lozenges. The list is sold at 6*d.* post free, and is to be issued quarterly.

MONOMET, a developing-agent for use in place of metol, which is put on the market by the White Band Manufacturing Co., Ltd., Progress Works, South Croydon, has been reduced in price. It is now 60*s.* lb., 15*s.* ¼ lb., 3*s.* 9*d.* 1 oz., and 1*s.* ¼ oz. A note regarding monomet was given in the *C. & D.*, March 4, p. 58, and a comparison with the prices then announced shows a very substantial reduction in price. The company inform us that they have enlarged their plant for making monomet, and they are also turning out an improved product.

FLY-CATCHERS.—Kay Bros., Ltd. St. Petersgate Mills, Stockport, suggest that in view of the fly-season, which may begin at any time now, chemists should lay in a stock of fly-catchers and be prepared for the first customers. The public is now better educated as to the necessity for destroying flies, and this is likely to be reflected in an increased demand for means of overcoming the pest. Messrs. Kay find greatest demand for the "Viper" and "Flysae" suspensory fly-catchers and the "Big Bat" and "Falcon" flypapers. The "Viper" fly-catcher this year is only supplied of 2-inch width.

EAR-DRUM PROTECTORS.—Mr. G. F. Berry, 4 Cullum Street, Fenchurch Street, London, E.C., is the sole agent for the British Empire for the "Tommy" ear-drum protectors. These are simple devices moulded in rubber and of such a shape that they fit into the ear and are retained in position. A small rod is supplied to assist in inserting the protector in the ear. There is a large demand by gunners for ear-drum protectors, and this is one of the simplest that have been devised. The protectors are also used by workmen in noisy factories, by motorists, aviators, and bathers, so that there is a large public to draw upon even after the demand from gunners has ceased. The War Office has recognised the value of the "Tommy" protectors, which are supplied officially to the fighting Forces.

THE USES OF RUBBER.—The Rubber-growers' Association during 1915 presented a motor-ambulance to the War Department, 4,000 rubber life-saving collars to the Australian Navy, 150 pairs of rubber boots to the Royal Flying Corps, and rubber cushions and crutch and stick pads to sixteen hospitals. The rubber flooring presented to three hospitals in 1914 continues to give satisfaction.

Next Week.

THE Summer Issue of THE CHEMIST AND DRUGGIST is to be published on July 29, but it has to be put to press a day or two earlier than usual owing to the large quantity of matter to be dealt with. The Publisher asks us to intimate that he cannot guarantee the insertion of any advertisement in the white-paper pages received after the first post on

TUESDAY MORNING, JULY 25.

Small advertisements for THE CHEMIST AND DRUGGIST Supplement can, however, be received up to first post on Thursday morning, July 27.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on the June Analytical Exercise.

THE powder distributed to students on June 6 consisted of equal parts by weight of hydrogen potassium tartrate, potassium oxalate, and potassium sulphate. The calculated composition of such a mixture is:

K	36.1
$C_4H_4O_6$	26.2
C_2O_4	15.9
SO_4	18.4
H	0.2
H_2O	3.2
	100.0

Samples of the powder were sent out to sixteen students and nine reports were submitted in response. All the writers detected potassium. The failures in the detection of the acid radicals were: Tartaric, 1; oxalic, 3; sulphuric, 1. The evolution of water when the powder was heated in a dry test-tube was overlooked by one student only.

The high marks attained by most correspondents in this analysis indicate that the exercise was a simple one. Since the powder dissolved completely in water and its solution did not yield any precipitates with the usual group reagents for metallic radicals, it readily became evident that metals of the alkali group and acid radicals would alone require to be sought for in it. Proof that potassium was the only alkali metal present was not difficult to obtain. As regards acid radicals, preliminary tests pointed pretty clearly to the probable presence of a tartrate; but a citrate might also be present, and the treatment of the problem thus indicated was one of the few difficulties of the analysis.

With a view to preparing a solution to be tested for acid radicals, several correspondents (apparently without considering what the procedure is intended to effect, but simply in accordance with common routine) boiled a portion of the powder with solution of sodium carbonate—an operation which converted the acid tartrate into neutral tartrates, but did not bring about any analytically useful result. They next filtered the liquid (this, apparently, because after boiling with sodium carbonate it is customary to filter, in order to remove insoluble matter), although there was no insoluble matter to remove, and they then proceeded to examine the filtrate for acid radicals. The inflexible adherence to routine operations, whether these are applicable or not to the particular case in hand, is a sure index to unintelligent working. The tests for acid radicals could, of course, have been applied to portions of the original aqueous solution of the powder, suitably prepared by neutralisation, or by the addition of dilute nitric, hydrochloric, acetic, etc., acids, whereby the risk of introducing impurities in the sodium carbonate employed would have been avoided.

In order to test for a tartrate and a citrate it was best to resort to special tests for each, since tests involving the formation and behaviour of the respective calcium salts are often unsatisfactory and are apt to prove misleading. The silver-mirror test and the resorcin test for tartrates, and the test of Denigès for citrates gave satisfactory positive and negative results respectively.

In testing for an oxalate by the addition of calcium chloride to a portion of the original solution previously mixed with acetic acid, the formation of a white precipitate was not conclusive evidence, since in the presence of the sulphuric-acid radical this precipitate might have consisted of calcium sulphate only. Two methods for confirming the oxalate were available. One was to use a saturated solution

of calcium sulphate as precipitant instead of calcium chloride, when the precipitation of calcium oxalate would still have taken place, whereas calcium sulphate could not have been precipitated under the conditions. The other was to collect and wash the precipitate produced by calcium chloride, then to heat it with dilute sulphuric acid, and add dilute solution of potassium permanganate. Decolorisation of the latter would then have indicated that the precipitate contained calcium oxalate. It was not a confirmation of the presence of an oxalate to heat the original solution with potassium permanganate, as some students did, and to observe the decolorisation which occurred, since the tartaric acid radical present was also capable of decolorising the permanganate.

Prizes.

The First Prize for the best analysis has been awarded to Harold M. Hirst, 14 Ashville Avenue, Cardigan Road, Leeds.

The Second Prize has been awarded to Somah Sachs, c/o Mrs. Goldstone, 10 East Adam Street, Edinburgh.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

H. M. Hirst (1st Prize)	94	Spes	79
S. Sachs (2nd Prize) ...	93	Arthur Noble	70
A. V.	92	Adnitens	69
Onyx	92	J. J. W.	43
Resurgam	86		

To Correspondents.

H. M. Hirst.—Note that the gases given off on heating a tartrate or an oxalate could not rekindle a glowing splinter. It is better to write HCl than HCL.

A. V.—The curdy or non-curdy character of a silver precipitate is of little consequence when the precipitate may contain several different silver salts. The solubility, partial solubility, or insolubility of the precipitate in dilute nitric acid is, together with its colour, a much safer guide to its probable chemical nature.

Onyx.—The silver precipitate formed when testing for acid radicals was dissolved—all but the faintest cloud—when dilute nitric acid was added to it in sufficient quantity. Any considerable amount of undissolved precipitate consisted of silver oxalate, which is only dissolved when dilute nitric acid is added to it in decided excess.

Resurgam.—The calcium which you found may have been derived from tap-water. The inclusion of current slang in your report does not tend to improve the impression conveyed to the reader. Oxalate—not oxolate: Denigès—not De Nigès.

Spes.—Your failure to find the oxalate seems to have been solely due to your not having employed any test that could have proved its presence. The use of a suitable indicator is the most convenient way of proving the presence of hydrogen ions in a solution: the evolution of water on heating a substance either alone or with pure dry cuprie oxide is evidence of the presence in the substance of hydrogen in some form.

Arthur Noble.—In the examination for acid radicals you describe silver nitrate as yielding a white precipitate which dissolved almost entirely in dilute nitric acid, and this you regard as proving the absence of phosphates and oxalates; but silver oxalate is white and it dissolves in dilute nitric acid. The precipitation of calcium tartrate by the addition of calcium chloride to a solution of a tartrate requires a considerable time to become even approximately complete. It is hastened by boiling, and this may explain the behaviour which led you to conclude that a citrate was present.

Adnitens.—You make cryptic (or, at least, incomprehensible) reference to confirmation of potassium by aid of "Pot. Hyd. Tart." employed as a reagent. *Re* your inclusion of "? Citrate" among the constituents found, see the reply to "Diazo" in the *C. & D.* for July 1, p. 45.

J. J. W.—In several portions of the powder which we employed for various purposes we found no black particles insoluble in water, and you alone report having observed such. The reactions which you attributed to an acetate were mainly due to the tartrate.

The analyses will be resumed in October.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackburn.—At the meeting of the Insurance Committee the Clerk presented statistics regarding the number of persons required for the maintenance of an adequate pharmaceutical service. It was decided to inform the military authorities that the fifteen chemists, eight chemists' dispensers, and two doctors' dispensers on the list are indispensable. Statistics regarding the Drug Fund were also given at the meeting. For the quarter ended March 1916 the drugs cost 525*l.* 4*s.* and the dispensing-fees came to 474*l.* 10*s.*

Essex.—A meeting of the Pharmaceutical Committee was held in London on July 18, when the Chairman (Mr. Matthews), Vice-Chairman (Mr. England), and Secretary (Mr. Goode) were re-elected. The Secretary reported on the Conference of Pharmaceutical Committees of East Anglia regarding prescription-price checking. Arrangements have now been made for Insurance dispensing at Shoeburyness and Halstead. The scheme of settlement of drug-accounts for 1915 was discussed, but an expression of opinion was deferred pending the receipt of full details. The Medical Benefit Sub-Committee was asked to deal with suggestions from the Panel Committee regarding "repeats" and prescriptions written on the last day of the month. The list of stock mixtures authorised by the Commissioners was referred to, and the keeping qualities severely criticised. It was resolved to lose no opportunity of expressing the hope that the opposition of the Panel Committee to the adoption of stock mixtures be maintained.

Leeds.—The annual meeting of the Pharmaceutical Committee was held on July 13, Mr. F. Pilkington Sargeant in the chair. Mr. H. Gilleghan, the Secretary, submitted the annual report, which reviewed the chief events that have occurred during the year. Reference was made to the local Pharmacopœia issued a few weeks ago by the Panel Committee without consultation with the Pharmaceutical Committee or the Medical Benefit Sub-Committee. The Formulary cannot be employed until a month after its approval by the Insurance Committee. In reply to Mr. R. G. Shaw, the Chairman said the Insurance Committee had nothing to do with introducing the new Pharmacopœia. The Panel Committee had to do this, and could do it without consulting either the Insurance Committee or the local Pharmaceutical Committee, except in so far as its use may involve changes of administrative procedure. He had pointed out that it does involve such changes. In reply to a suggestion by Mr. Shaw that the pharmacists should protest, Mr. Sargeant said the time to do that would be when the Pharmacopœia, now withdrawn, was re-introduced, but he might warn them that there would be no use in protesting. In reply to Mr. M. A. Murray, the Chairman said the Pharmaceutical Committee had no official knowledge of the issue of the Pharmacopœia. Mr. J. H. Beacock added that one or two members of the Committee had been asked to go through the proposed formulæ before the work was printed, but this was a personal matter only. The Chairman mentioned that the delay in payment of accounts for last year was due to delay on the part of the British Medical Association in notifying the Commissioners of the agreement of Panel Committees with the basis of settlement. Mr. Sargeant added that chemists could not claim for an *ex gratia* payment, but an appeal would be made from headquarters. Mr. Gilleghan said that the July prescriptions, to be sent in to the Leeds office instead of going at the chemist's expense to the Pricing Bureau at Wakefield, must be in the Leeds office by the morning of August 3, so that they may reach Wakefield on August 4.

Middlesex.—The Pharmaceutical Committee met on July 12, when a communication was considered from the Commissioners dealing with the proposed terms of settlement for 1915 accounts. Letters were received from the Insurance Committee regarding payments for distilled water and emergency dressings and about stock mixtures. The proper statutory notice not having been given on the stock-mixture question, this was ruled out of order. A Sub-Committee was appointed to deal with the question of local formulæ. A report was received from the Prescription-checking Department, and it was stated that there is no reason to anticipate any serious delay in future payments.

Newport (Mon.).—At the meeting of the Insurance Committee on July 19, the Clerk reviewed the working of the new system of pricing and checking prescriptions. He

said it is probable that co-operation between various Committees will be further extended in the future in the direction of providing the most economical machinery for carrying out the duties involved in the administration of Medical Benefit. The present arrangements for paying chemists' accounts would work more smoothly so soon as the pricing staff acquire further practice. The Committee received applications for the names of Mr. C. B. Paine, chemist and druggist, and Mr. Johnson (Boots, Ltd.), to be added to the list of chemists recommended for exemption from military service, but declined to take further action.

North Riding.—At the meeting of the Insurance Committee on July 15, statistics were given of the number of prescriptions dispensed in 1916—viz., 104,839, as compared with 117,631 in the previous year. The cost per script was 8.72*d.*, against 9.21*d.* in 1914.

Northamptonshire.—It was reported at the meeting of the Insurance Committee on July 15 that an agreement had been arrived at with the military authorities regarding the exemption of six chemists whose services are regarded as indispensable for maintaining an adequate pharmaceutical service. One other case is to be referred to the Commissioners.

Peterborough.—The Joint Committee on the recruiting of chemists recommended that exemption from military service be obtained for Messrs. J. W. Hall, C. C. Carter, C. Hamson, F. Calder, E. J. Sharman, H. C. Pick, G. Bennett, and J. R. Sturton. Mr. F. W. Cullington and Mr. C. Bell, two assistants with Boots, Ltd., are to be asked to submit to medical examination at Northampton.

Plymouth.—The Pharmaceutical Service Sub-Committee has held meetings to consider charges of inaccurate dispensing preferred against chemists by the Panel Committee. The pharmacists called attention to the analytical error that would arise through the varying size of bottles. The Sub-Committee is recommending the Insurance Committee to send out a warning circular to Insurance dispensers. The Pharmaceutical Committee in connection with this matter is calling attention to badly written prescriptions, which give rise to differences between the Pricing Bureau and chemists, and also to the bottle difficulty, which has caused the analysts to produce what the Committee contends is a fallacious report.

Preston.—At the meeting of the Insurance Committee on July 12, the Chairman of the Medical Benefit Sub-Committee mentioned that the Pharmaceutical Committee has arranged for an adequate pharmaceutical service from 9 A.M. to 12.30 P.M. during the Preston holidays, August 14 to 16. A doctor present wanted some chemists' shops to be open during the whole of the holidays, but an amendment he proposed to the report of the Medical Benefit Sub-Committee was defeated.

Sheffield.—A meeting of panel chemists was held on July 13, Mr. H. G. Williams in the chair. A vote of sympathy was passed with Mrs. G. T. W. Newsholme on the death on active service of her only son. The annual report and balance-sheet were presented. The report reviewed the chief events of the year. The question of the outstanding balances for 1914 and 1915 was discussed, and it was stated that there is very little hope of any further payment for 1914 being made, but so far as it is possible to estimate full payment should be made for 1915. A discussion took place on the question of checking prescriptions. Mr. E. Preston held that the charges are too high, running up to over 14*s.* per 1,000, which is considerably more than the cost for pricing. The Secretary said the cost for the year would amount to 124*l.* The average number of scripts for the last two years was 500,000, so that the cost of checking would be slightly under 5*s.* per 1,000. Thanks were given to the Pharmaceutical Committee and to the Emergency Committee on Recruiting for the work done during the year.—A meeting of the Pharmaceutical Committee was held afterwards. The Secretary reported that he appealed to the Commissioners for information regarding the proposed settlement of accounts for 1915, and has been informed that the proposals for a settlement with the doctors and chemists relate solely to the procedure to be adopted for constituting the General Medical Benefit Fund, and in no way affect the subsequent apportionment of that Fund, which will be carried out in accordance with the provisions of Article 12 of the Payments to Insurance Committee Regulations, 1914. This means apparently that the same methods of deductions for inflated, or supposedly inflated, lists of insured persons will be used for arriving at the sum to be paid to chemists. The Secretary was instructed to ask the Insurance Committee to make an early payment of the balance due to chemists on their 1915 accounts on the lines laid down by the Commissioners.—A price-list of the twenty-seven National Health Insurance stock mixtures, concentrated, from double strength to 1 in 7 has been distributed in Sheffield by a wholesale drug-house. This, it is thought, may bring up the old local trouble of unqualified contractors claiming the right to sell manufactured mixtures without charging the dispensing-fees. It was not without some difficulty that the practice was stopped, as such mixtures as mist. sennæ co. and some stock private formulæ were claimed as coming within the list of drugs which might be treated simply as drugs and supplied without dispensing-fees.

West Bromwich.—At the meeting of the Insurance Committee the Medical Benefit Sub-Committee's report recommending that chemists be allowed an extra dispensing-fee of sixpence for urgent prescriptions was adopted. Up to the present a double dispensing-fee has been paid, but the Commissioners asked for a flat rate extra fee to be arranged. The payment of 17*l.* to the Pharmaceutical Committee for administrative expenses was agreed to.

SCOTLAND.

Forfarshire.—It was reported at the meeting of the Insurance Committee in regard to the recruiting of chemists that an endeavour had been made to retain at least one dispensing chemist for every 3,000 of population. Kirriemuir is the only place in the county where this proportion has been exceeded.

Glasgow.—The Pharmaceutical Committee met on July 13, when it was reported that the Insurance Committee has decided to adhere to their original decision to abolish "repeat" prescriptions in their area. The decision has been operative since January of this year, but the Panel Committee has requested reconsideration of the matter. A statement of the Drug Fund and accounts for 1915 was submitted. The number of prescriptions dispensed was 617,928 and the amount credited to chemists 24,099*l.* 19*s.* 8*d.* The amount for 1914 was 30,458*l.* 17*s.* 3*d.* Figures were also given for the first quarter of the present year: prescriptions 142,816, value 5,920*l.* 16*s.* 11*d.*, as against 198,550, value 7,700*l.* 2*s.* 10*d.*, for the same period of last year. All balances of chemists' accounts for 1915 had now been paid, and also the balances for the first four months of the current year. The cheques for May accounts will represent the full amount instead of a payment to account as hitherto. An abstract of the statistics furnished by the Central Checking Bureau relative to the doctors' prescribing for the year 1915 was submitted. These showed strong presumptive evidence of "extravagance" on the part of a number of practitioners, and after discussion the Committee decided to make the necessary representations to the Panel Committee. The total cost of the drug bill per insured person for the whole area is unlikely, after final adjustment, to exceed 1*s.* 8*d.* The Secretary read an interim report on the working of the arrangement in regard to chemists and military service. It was intimated that the Commissioners proposed to appoint Mr. G. S. Kitchin a member of the Insurance Committee, in place of Mr. J. P. Gilmour.

Association Affairs.

Hertfordshire.—At the request of the County Pharmacists' Association the Public Health Committee of the County Council recommended that for tuberculosis dispensary prescriptions dispensed by chemists an addition of 20 per cent. shall be made on the amounts ascertained by the Pricing Bureau under the Insurance Drug Tariff. The County Council has agreed to this, the increase to take effect from January 1 last.

Huddersfield.—A meeting of the Huddersfield Chemists' Association was held on July 11, Mr. V. Shaw (President) in the chair. It was reported that the local Advisory Committee under the Military Service Act had treated chemists' appeals for exemption in a reasonable way, and where proof was submitted of the needs of any particular position in the county borough area exemption had been granted. The President and Messrs. Pickering and Russell were deputed to deal with any matter arising out of the stock-mixture question which had been discussed by the Insurance Committee and was likely to come up again before the Panel Committee. The Pharmaceutical Committee was instructed to press for a settlement of chemists' accounts for the year ended 1915, and great dissatisfaction was expressed by most of the members at the delay and the niggardliness of the Commissioners, more particularly on account of the great increase in the price of drugs.

London County.—A meeting of the Executive Committee of the London County Pharmaceutical Association was held on July 18. Mr. E. White wrote resigning the presidency owing to pressure of other pharmaceutical

engagements. The following officers were elected: *President*, Mr. A. H. Jenkin; *Vice-President*, Mr. A. R. Melhuish; *Hon. Secretary*, Mr. G. A. Tocher. Mr. W. H. Goy wrote resigning his position as member of the Executive. It was decided that delegates from the Executive should interview the Council of the Proprietary Articles Trade Association regarding trade matters. It was stated that the "C. L." stock mixtures for Insurance dispensing will come into operation on July 20.

Middlesex.—At a meeting of the Middlesex Pharmaceutical Association Executive held on July 12, Mr. H. E. Clement in the chair, a vote of condolence with the widow and family of the late Mr. C. J. G. Bunker was passed in silence. The whole of the officers were unanimously re-appointed for the ensuing year: *President*, Mr. Herbert Skinner; *Vice-President*, Mr. H. E. Clement; *Secretary*, Mr. Hugo Wolff. Correspondence was then dealt with, and approval was given to a form of letter suitable for sending to institutions employing unqualified persons as dispensers, to be used only when vacancies arise.

P.A.T.A.—Prior to the annual meeting on July 13 of the Proprietary Articles Trade Association, which was reported in our last issue (p. 49), a Council-meeting was held, at which the resignation of Mr. J. P. Gilmour was accepted, and the vacancies on the Council filled by the co-option of Mr. J. Milner and Mr. W. L. Currie, as mentioned last week. The replies were read from Condy & Mitchell, Ltd., Scrubb & Co., Ltd., Alfred Fennings, Thomas Beecham, J. C. Eno, Ltd., Edwards' Harlene Co., and Dinneford & Co., Ltd., in which these owners of proprietary articles gave their reasons for declining to receive a deputation from the Council. A supplementary edition of the Protected List is to be published in August.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Professor J. Uri Lloyd, Cincinnati, has been made a Doctor of Science of the Cincinnati University.

Miss Margaret E. Buchanan, Ph.C., communicated to "The Queen," July 15, a paper on "Pharmacy as an Occupation for Educated Women."

The Army Rank of Mr. S. W. Bunker, son of the late Mr. C. J. G. Bunker, was given as Lieutenant-Colonel in the *C. & D.*, July 1, p. 40. It should have been Major.

St. Pancras Guardians have appointed Mr. Amos Westwood, chemist and druggist, as *locum tenens* during the annual leave of absence of the dispensers at the North and South Infirmaries.

A. W. S. Henderson, son of Mr. A. W. Henderson, chemist and druggist (Boots, Ltd., 31 High Street, Islington, N.), has obtained a Third Scholarship, and enters Dame Owen's College, London, at the next term.

Mr. Wm. J. Powell, who is apprenticed to Mr. Edgar Stabler, Ph.C., Stockport, has passed first class (with distinction) in the fifth-year chemical trades course in inorganic and organic chemistry at the Stockport Technical School.

Mr. J. Barry Hopkins has retired from City life. He was associated with S. Maw, Son & Sons, Aldersgate Street, E.C., for forty-seven years, leaving in 1905. Since then he has been with Arnold & Son, surgical-instrument makers, Giltspur Street. On leaving last week he was presented with a silver salver, candlesticks, inkstand, and seal by the firm and the staff. He is a liveryman of the Spectacle-makers' Company.

Dr. James Patrick Longstaff, F.C.S., Hon. Secretary of the Edinburgh and East of Scotland Section of the Society of Chemical Industry, has been appointed Secretary of the Society, succeeding Mr. C. G. Cresswell. He is an Edinburgh man, and graduated as B.Sc. and D.Sc. at the University there. He has been on the staff of the Professor of Chemistry and a colleague of Dr. Leonard Dobbin. There were ninety-six applicants for the position.

Mr. M. Heseltine, of the National Health Insurance Commission, has been appointed Private Secretary to Mr. E. S. Montagu, Minister of Munitions. It will be remembered that Mr. Heseltine wrote for Mr. Charles Roberts, M.P., Chairman of the National Health Insurance Joint Committee, the letter in regard to the Scottish position which Mr. Roberts sent to every chemist in Scotland last November, and to which Mr. J. Rutherford Hill sent a very effective reply (*C. & D.*, December 4, 1915, p. 48). Mr. Heseltine was Private Secretary to Mr. Roberts, and he is now succeeded by Mr. W. L. Rind.

Mr. Arthur Carter, chemist and druggist, passed the recent Final examination for the diploma M.R.C.V.S. Mr. Carter passed the Minor in 1902, after studying at the Metropolitan College under Mr. W. Watson-Will. For some time he was an assistant to Mr. F. Wilde, 100 Brompton Road, London, S.W., and later in the retail establishment of Southall Bros. & Barclay, Ltd., Bull Street, Birmingham. In 1907 he bought a business at Cheadle, Staffs, but disposed of it in 1911 to enter the Royal Veterinary College, London, as a student in October 1912. His career as a student is something of a record. During the first year he took the bronze medal in chemistry and passed the First examination with honours. Second year: Bronze medal in anatomy, silver medal in physiology, and passed the Second examination with honours. Third year: Silver medal in veterinary hygiene, silver medal in materia medica, Centenary prize (silver medal), and passed Third examination. Fourth year: Silver medal of the Veterinary Medical Association for reading and defending a prize essay on milk-fever. Finally, Mr. Carter passed the Final examination with honours, taking the Veterinary Medical Association's gold medal offered to the student who gains the highest marks in the Qualifying examination. He has obtained a commission in the Army Veterinary Corps, and will shortly be on active service. Upon his return he will practise at Cheadle.

Medical Gleanings.

The Fasting Treatment of Diabetes.

Dr. E. I. Spriggs, Duff House, Banff, describes in the "British Medical Journal" his experience with the fasting method of treating diabetes. The method referred to consists in depriving the patient of food until the urine has been sugar-free for twenty-four hours. For the first two days a cup of tea and a small amount of clear meat broth are allowed twice a day. After the fast a graduated diet is introduced which needs close daily supervision. Dr. Spriggs finds that in all milder cases of diabetes the fasting method offers great advantages. In some cases as good an effect may be attained, though much more slowly, without fasting and subnutrition with its risk of depression and weakness, provided the patient is willing to keep permanently to the diet which has been found by careful testing to be suitable to his case. Fasting up to several days was well borne, the urine was made free from sugar, and all the patients felt better for the fast.

Occupational Dermatoses.

Dealing with some new forms of occupational dermatoses due to the action on the skin of trinitrotoluene, ammonium nitrate, and nitroglycerin, Dr. R. Prosser White, M.D., M.R.C.S. ("The Lancet," I., 1916, p. 400), mentions that he uses as a first application the following paint, which has been for many years his routine topical remedy in impetigo, the intertriginous group of skin-diseases, and in all secondary impetiginisations, which so frequently prolong and delay the healing of eczema. In localised erythematous and papulo-vesicular eczemas and in the later lichenoid form it gives, after a few moments' smarting, a great feeling of relief. In patchy eczematised seborrhœa, so resistant to many lotions and ointments, it subdues the itching and assists the usefulness of further treatment. It is never prescribed for the patient's own use, but dabbed freely on the inflamed and itching part by the surgeon. It must not be used to irritable mucous surfaces. The formula is:

Camphor.	3ij.
Acidi carbolici	3iss.
Hydrarg. perchlor.	gr. xv.
Acid. picric.	3ss.
Sp. vini rect.	3vj. 3vj.

M. Fiat pigmentum.

Sig.: Apply by a swab or brush.

For home treatment is prescribed 2 oz. of the paint mixed with 4 oz. of lotio calamin. co. and the addition of ½ dr. of pulv. acaciæ. Ointments are inadvisable during the daytime, when the men are exposed to the dust of their trades, but worn at night or under the bandages the following is very soothing:

Zinc. oxidi	1 part
Acidi oleic.	9 parts

Allow to stand for two hours, then incorporate—

Emplast. plumbi	10 parts
Parenol solid	25 parts
Parenol liquid	13 parts
Hydrarg. ammon.	2 parts

Fiat ung.

Later the treatment follows the usual dermatological lines.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., July 20, 5.30 p.m.

LAST week's rise in the Bank rate to 6 per cent. has had the effect of further curtailing business, and the general tendency of prices is still downwards. The chief event has been a further drastic cut in the prices of bromides, following a similar reduction in America. This has given rise to an unsettled feeling in other chemical products obtainable from the United States, and there is a momentary lack of confidence in the stability of prices generally. Among the products tending lower are acetyl-salicylic acid, salicylates, formaldehyde, hexamine, potash permang., salol, acetanilide, methyl salicylate, potash carbonate, and sulphonal. Citric and tartaric acids and cream of tartar are lower. Among the few articles which have appreciated in value are Japanese refined slab camphor, bergamot oil, methyl sulphonal, Howards' quinine, and shellac. Resorcin, phenacetin, and potash sulpho-guaiacolate are still very scarce.

Higher	Firmer	Easier	Lower
Bergamot oil	Ammonia sulphate	Acetic acid	Acetanilide
Camphor (Jap. ref. slabs)	Jalap	Acetyl-salicylic acid	Antimony (crude)
Methyl sulphonal	Orange oil	Cocaine	Balsam canada
Quassia chips		Cottonseed oil (crude)	Bromides
Quinine and salts (Howards')		Ergot (Russ.)	Chillies
Shellac		Formaldehyde	Citric acid
		Glucose	Cream of tartar
		Hexamine	Methyl salicylate
		Ipecacuanha	Mint oil (Jap.) (c.i.f.)
		Linseed oil	Potashes (Montreal)
		Nux vomica	Potash carbonate
		Potash permang.	Squill
		Salol	Sulphonal
		Starch powder	Tartaric acid
			Wax, veget. (Jap.) (c.i.f.)

Cablegram.

NEW YORK, July 19.—Business is fair, with prices generally tending downwards, the following products being on a lower basis: Opium is $11.25 per lb. (15c. cheaper); menthol is $2.75 (10c. cheaper); Cartagena ipecacuanha is $1.50 (25c. cheaper); balsam Peru is $3.75; sweet oil of birch $2.55; elecampane-root 10c.; buckthorn-bark 39c.; and balsam tolu 37c. per lb.

ACETANILIDE is cheaper, at 6*s.* per lb. net on spot.

ACETIC ACID is weaker, glacial offering at 250*l.* per ton in carboys ex wharf, and 80-per-cent. commercial at 120*l.* in casks.

ACETYL-SALICYLIC ACID.—Prices are gradually tending easier, and it is difficult to obtain 40*s.* per lb. in quantity, although this price is being paid for small lots; to arrive 37*s.* 6*d.* is quoted. Competition in America is very much keener, and the quality is being improved.

AMMONIA SULPHATE is higher at 16*l.* 5*s.* net naked at works in London for 25-per-cent. ammonia for prompt delivery. Hull prompt (24-per-cent.) is 17*l.* 7*s.* 6*d.*, Liverpool is 17*l.* 15*s.*, and Leith-Glasgow is 17*l.* 10*s.* per ton for prompt, less 3½ per cent., in bags f.o.b.

ARSENIC.—Best English powder is 36*s.* in barrels and 38*s.* 6*d.* in kegs on the spot.

BALSAMS.—Good hard *Tolu* is held at 1*s.* 7*d.* spot. *Peru* is 15*s.* 6*d.* spot and 15*s.* c.i.f. *Copaiba* is 3*s.* 2*d.* spot for filtered Maracaibo, and 3*s.* c.i.f.

BERGAMOT OIL is dearer at 15*s.* 6*d.* to 16*s.* per lb. c.i.f. for 37 to 38 per cent. esters.

BROMIDES.—Following upon another drastic reduction in prices in the United States—apparently the result of fierce competition among sellers—the leading English dealers have also reduced their prices. The price of potassium has declined from 14*s.* to 7*s.*, ammonium from 11*s.* to 6*s.*, and sodium from 9*s.* to 5*s.* per lb. net. This heavy break is certainly very surprising, and the effect of this reckless competition will be to restrict trading, especially while the fight continues. It is conjectured that makers may have reduced their prices in view of the premature ideas of peace which prevail in the United States, the object being to sell as much as possible. It has repeatedly been stated that the output of bromine in the United States had not been increasing, and as the Allies and most neutral countries are dependent on American bromine and bromine-preparations, the present collapse is somewhat unexpected.

CAMPHOR (REFINED).—Japanese slabs are dearer in view of the American buying, and a good spot business has been done at 1*s.* 10*d.* to 1*s.* 10½*d.* per lb. To arrive, sellers quote October-November shipment at 2*s.* 1*d.* c.i.f., but near at hand has been sold at 1*s.* 10*d.* c.i.f.

CANANGA OIL.—Java is scarce at 13*s.* 6*d.* per lb.

CASCARA SAGRADA.—With "bullish" cables from primary sources spot prices are firm at 65*s.* per cwt. for old (1913), 62*s.* 6*d.* for 1914-15, and 59*s.* for parcels on the way.

CHLORAL HYDRATE.—Crystals on the spot offer at 9*s.* 9*d.* to 11*s.* 9*d.* per lb. net in bond according to seller, and to arrive at 10*s.* 9*d.*

CINCHONA.—At the tender held at Amsterdam on July 12, 12,220 packages, weighing 998,383 kilos., Java manufacturing bark were declared, the quinine content being 62,267 kilos. The average percentage of quinine in the manufacturing bark was 6.24, against 6.02 and an average of 6.25 over 1915. Of the above quantity the quinine factories purchased 9,929 packages, weighing 809,731 kilos., containing the equivalent of 50,649 kilos. quinine sulphate at the preliminary unit of 13.71c. per half-kilo., compared with the preliminary unit of 12.99c. in June and 14.18c. in May. At the auction of pharmaceutical bark on July 13, 1,343 packages (713 bales and 630 cases) offered, weighing 72,037 kilos., the quinine content being 2,090 kilos., of which 7,969 kilos. bark, containing the equivalent of 150 kilos. quinine, were disposed of. At the London auction on Tuesday 1,404 packages offered, but owing to the higher prices asked little sold; of East Indian 1,029 packages offered and 28 sold at 9½*d.* for officinalis natural stem chips; 83 bales West African offered and sold at 7½*d.* to 8*d.* For fair part broken red quill of Calisaya 292 bales were retired at 1*s.* 8*d.* for flat and 1*s.* 1*d.* for quill; the quill bark was sold subsequently. The average unit for what manufacturing bark sold was 2½*d.*

CITRIC ACID is 2*d.* per lb. lower than last week, closing at 3*s.* 6*d.*

COCAINE is easier, hydrochloride offering at 20*s.* per oz. net and at 19*s.* 6*d.* to arrive.

COD-LIVER OIL.—Our Bergen correspondent writes on July 10 that the market remains quite lifeless and no actual quotation is current. In London the market remains quiet, finest new Norwegian 1915 oil offering for prompt shipment at 560*s.* per barrel c.i.f., with spot sellers at much less.

CREAM OF TARTAR is lower, 98-per-cent. powder offering at 197*s.* 6*d.* per cwt. The French "Journal Officiel" for June 29 contains a Decree of the Minister of Finance which provides that cream of tartar may be exported and re-exported, without special authorisation, when consigned to the United Kingdom, the British Dominions, Colonies, and Protectorates, Belgium (territory not in enemy occupation), Japan, Russia, or American countries.

ERGOT.—Fair arrivals have taken place from Russia; sound is offered at 2*s.* 2*d.* on the spot.

EUCALYPTUS OIL is unchanged, with B.P. qualities offering at from 2*s.* 5*s.* to 2*s.* 6*d.*

FERRI ET QUIN. CIT. is unchanged at from 1*s.* 2½*d.* to 1*s.* 5½*d.* per oz., according to quantity and package.

FORMALDEHYDE is easier, American 40 per cent. volume in casks offering at 90*l.* to 95*l.* per ton. on the spot.

GALLIC ACID.—Pure *cryst.* is offered at 5*s.* to 5*s.* 6*d.* per lb. for spot and near at hand.

GLUCOSE is easier, liquid offering at 27*s.* to 27*s.* 6*d.* per cwt., and solid at 34*s.* to 35*s.*

GOLDEN SEAL.—Sales on the spot have been made at from 21*s.* to 22*s.* net.

HEXAMINE is offered at from 4*s.* to 4*s.* 3*d.* per lb. net, being easier; sales have been made at slightly less than the foregoing.

HYDROQUINONE is quoted at 27*s.* 6*d.* per lb. on the spot and to arrive.

IPECACUANHA is on the easier side, and during the past fortnight the small sales include Matto Grosso at 13*s.* 6*d.*

to 14*s.*, the latter for good test; Minas at 13*s.*, Johore at about 12*s.*, and Cartagena at 8*s.* 6*d.* Very fair arrivals have taken place.

Jalap has been in better inquiry of late; holders are the turn firmer in their ideas of value. Current rates are: 7½ per cent., 9½*d.*; 13 per cent., 1*s.* 2*d.*; and 17 per cent., 1*s.* 6*d.* on the spot.

Lavender Oil.—Although distillation of the French oil has not yet commenced it is expected that the new crop prices will be 2*s.* to 3*s.* per lb. dearer on account of a poor oil yield as the result of drought.

Lemon Oil is a trifle firmer for shipment from Sicily at from 3*s.* 7*d.* to 3*s.* 8*d.* c.i.f. Spot stocks which are plentiful offer at from 3*s.* 8*d.* to 3*s.* 9*d.*

Menthol.—Sales of Kobayashi-Suzuki for August-September shipment have been made at 9*s.* 3*d.* c.i.f., the spot prices being from 10*s.* 9*d.* to 11*s.*

Methyl Salicylate is pressed for sale from the United States, and the lower price of 11*s.* per lb. would be accepted on the spot.

Methyl Sulphonal is scarce and dearer at about 67*s.* 6*d.* per lb.

Mint Oil.—Sales of Kobayashi and (or) Suzuki have been made at 2*s.* 11*d.* per lb. c.i.f. for August-September shipment. The spot prices are from 3*s.* 5*d.* to 3*s.* 6*d.*, as to brand. The exports from Japan during April amounted to 36,265 kin, valued at 79,847 yen; during the four months ended April 30 the exports were:

			1914.	1915.	1916.
Kin	...	...	169,030	153,129	177,743
Yen	...	...	527,239	298,816	410,277

Nux Vomica.—Principal consumers appear to have covered their wants and are off the market; prices are easier, Cochin offering at 26*s.* spot and 23*s.* c.i.f. nominally.

Opium.—In view of a reported crop shortage in Persia (which is not yet confirmed) market for Persian gum is firmer; spot prices vary from 22*s.* 6*d.* to 24*s.* per lb. according to test. Small spot sales of Salonica (14 per cent.) are reported at 40*s.* to 41*s.*

Orange Oil is a trifle firmer at from 11*s.* to 12*s.* per lb. c.i.f.

Oxalic Acid.—Crystals offer at 1*s.* 8*d.* per lb. net, being easier.

Paraldehyde is offered in several quarters at 10*s.* 6*d.* per lb. net.

Peppermint Oil.—American has been an unusually quiet market for a lengthy period, and the price of good brands of tin oil is somewhat nominal at about 8*s.* 3*d.*; H.G.H. is 12*s.* 9*d.*

Phenacetin for July-August shipment from America is quoted at 80*s.* per lb.; for spot 85*s.* would have to be paid, supplies still being scarce.

Phenazone.—Values range from 60*s.* to 68*s.* per lb., according to seller.

Potash Carbonate.—For 80 to 85 per cent. 135*l.* per ton, and 90-per-cent. 145*l.* is quoted on the spot. Shipments from Russia are being resumed on a small scale.

Potash Iodide.—The exports from Japan during April amounted to 18,758 kin, valued at 137,925 yen. During the four months ended April 30 the exports were:

			1914.	1915.	1916.
Kin	...	...	31,505	62,050	60,076
Yen	...	...	204,176	400,132	443,897

Potash Permanganate is more freely offered with sales at from 6*s.* 9*d.* to 7*s.* per lb. on the spot.

Potashes.—Montreal are much easier at from 190*s.* to 195*s.* per cwt. for first Government brand on the spot, while for forward delivery about 160*s.* is quoted.

Pyrogallic Acid.—Crystals are quoted at from 15*s.* to 16*s.*, and resublimed 15*s.* 6*d.*

Resorcin remains very scarce, with a limited quantity obtainable at 90*s.* per lb.

Quassia.—Sales have been made at about 27*s.* 6*d.* per cwt., but 35*s.* is asked for good chips.

Quinine.—*Howards* announced an advance of 3*d.* per oz. in quinine on July 17, quoting (without engagement) the sulphate in bulk in 100-oz. tins at 2*s.* 7*d.* per oz., and vials at 2*s.* 10*d.* Some of the other salts in bulk are as follows: Acetate 3*s.* 1*d.*, arseniate 3*s.* 1*d.*, benzoate 3*s.* 2*d.*, bihydrochlor. 3*s.* 2*d.*, bisulphate 2*s.* 6*d.*, citrate 3*s.* 1*d.*, hydrobrom. 3*s.* 4*d.*, hydrochlor. 3*s.*, phosphate 3*s.* 1*d.*, salicylate 3*s.* 1*d.*, tannate 2*s.* 5*d.* per oz. Quinine is in easy tendency at from 2*s.* 10*d.* to 3*s.* per oz. from second-hands.

Salicylates.—Business is quite of a hand-to-mouth character, and prices have an easier tendency. For guaranteed pure English B.P. quality of salicylic-acid powder from 14*s.* to 14*s.* 6*d.* per lb. is quoted, and rather cheaper to come forward—say, 13*s.* to 13*s.* 3*d.* Sodium salicylate is quoted at 14*s.* to 14*s.* 6*d.* Makes which are not B.P. can be had at several shillings less.

Salol is easier at from 32*s.* 6*d.* to 35*s.* per lb. on the spot.

Sandalwood Oil.—Demand has quieted down on this market. American distilled from E.I. wood is offered at 34*s.* per lb. c.i.f.

Sarsaparilla.—Grey Jamaica and native Jamaica has arrived in fair quantity. Grey is 1*s.* 9*d.* to 1*s.* 10*d.*, Lima 1*s.* 6*d.* to 1*s.* 7*d.*, and native 1*s.* to 1*s.* 2*d.* as to colour. Mexican is obtainable at 9½*d.* to 10*d.* on the spot with an upward tendency.

Senna.—Tinnevelly is offered more freely from second-hands, and a fair accumulation of new imports has taken place.

Shellac is much dearer; the market last week closed at 98*s.* for fair TN on the spot, but prices this week show a further substantial advance, closing at 104*s.* basis fair; fine seconds 110*s.* to 115*s.*, and fine Orange 120*s.* to 125*s.*; fair free AC Garnet is 96*s.* to 97*s.*, and G.A.L. 92*s.* 6*d.* Futures are dearer, the sales including August up to 103*s.* 6*d.*, October 105*s.* 6*d.* to 105*s.*, and December 107*s.* 6*d.* to 107*s.*

Squill.—Owing to a few arrivals prices have declined, fair white now offering at 75*s.* per cwt. on the spot.

Sulphonal is lower, either crystal or powder offering at 22*s.* 6*d.* per lb. net.

Tannic Acid.—*Leriss* is quoted by several dealers at 5*s.* per lb. for spot delivery.

Tartaric Acid.—With heavy arrivals the spot prices are cheaper at 3*s.* 5*d.* per lb.

Thymol has sellers at from 35*s.* to 37*s.* 6*d.* per lb. for crystals ex ajowan-seed.

Turmeric.—With heavy stocks and fresh arrivals a further easing in values is looked for; good Madras finger has been sold at 37*s.* 6*d.* on the spot.

Vanillin is quoted at 36*s.* to 37*s.* per lb. on the spot.

Wax, Vegetable, is cheaper at 54*s.* per cwt. c.i.f.

Zinc Sulphocarbolate is offered at 3*s.* per lb.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals during the period June 28 to July 18, inclusive, in the English ports named. Goods in transit are not included. The figures refer to the packages—*e.g.*, cases, bags, barrels, boxes, kegs, etc. The weights, when known, are specified:

To London.

Acetic acid (R'dam) 39 cs., (N.Y.) 327 cbys. 512 brls.
Agar-agar 20
Albumen (N.Y.) 79 cs., (Ch.) 244, (E.I.) 66
Alcohol, gr. (N.Y.) 70; wood 453 dms.
Aloes (B'bay) 23 bgs., (Cape) 27
Ammon. anhyd. 20 cyl.
Ammon. nit. 1,469
Ammon. phosph. (N.Y.) 101
Aniline salt 23 brls.
Anise oil (Fr.) 116 cs., (Ch.) 165 cs.
Anise, star 60
Annatto-seed (E.I.) 100
Antim. ore (S.S.) 1,733
Antiphlogistin (N.Y.) 358 cs.
Arachis oil 5,688 pkgs.
Areca (Cey.) 54
Argol (It.) 184, (Fr.) 616
Arrowroot (W.I.) 1,626
Arsenic 91 cks.
Barytes (Sp.) 1,200
Belladonna - root (B'bay) 44 bgs.
Benzoin 59 cs.
Bismuth ore 57
Borax (N.Y.) 2,030
Boric ne. (It.) 25, (U.S.A.) 750
Bromides (Boston) 80 cs.
Buchu 4 bls.
Calc. carb. (It.) 225
Calc. citrate (It.) 234 cks.
Camphor, ref. (Jap.) 1,052 cs.
Camphor oil (Jap.) 50 cs.
Capsicums (E.I.) 125
Caraway-seed 21
Cardamoms 102
Casein (E.I.) 508, (Fr.) 1,300 bgs.
Cashew-nuts 398
Cassia (Ch.) 3,215
Cassia oil (Ch.) 40 cs.
Castor oil (E.I.) 893 cks.
Castor-seed (E.I.) 2,732
Chemical products (Fr.) 242 pkgs.
Chemicals, medicines, perfumery, etc. (N.Y., etc.) 2,398 pkgs.
Chillies (E.I.) 1,327
Cinchona (Amst.) 10 cs.
Cinchonine (Amst.) 15 cs.
Cinnamon oil (Cey.) 10 cs.
Citric acid (Palermo) 308 cks.
Cochineal 6 bgs.
Coconut oil 1,927 pkgs.
Colocynth (Fr.) 15 bls.
Copra 14,283 bgs.
Cream of tartar (Fr.) 340 kgs., (It.) 58
Croton-seed 25
Cubebs (B'bay) 23
Cumin-seed 48
Dill-seed 243 bgs.
Essential oils (N.Y.) 7 drms. 14 cs., (Fr.) 50 pkgs. 7 cs. (Demerara) 9 cs., (R'dam) 19 cs., (Sic.) 117 pkgs.
Drugs (Fr.) 5 cks. 4 cs., (Melbourne) 50 dms.
Ergot (Russ.) 13
Eucalyptus oil 10
Euphorb. pil. (E.I.) 18
Fennel-seed 45 bgs.
Formal dehyde (N.Y.) 801, (Fr.) 27
Formic acid 36 blns.
Fusel oil 11 hds.
Gamboge 31 cs.
Gentian (Fr.) 12 bls.
Geranium oil (Fr.) 5 cks.
Ginger (Jap.) 392, (N.Y.) 21, (E.I.) 236
Glycerin (N.Y.) 30 dms.
Glycoo thymoline (N.Y.) 713 bxs.
G. acacia (P. Sudan) 1617, (E.I.) 797
G. accroides 2,903 bgs.
G. copal 1,076 pkgs.
G. damar 233 bgs.
G. trag. (B'bay) 195 bgs. 284 cs.
Gums, undescribed (E.I.) 269, (Aust.) 640
Herbs (Fr.) 25 bls.
Hexamine (N.Y.) 18 brls. 54 cs.
Honey (N.Y.) 158, (Fr.) 121 cks., (N.Z.) 100
Hyd. perox. (N.Y.) 300 cs.
Hyoscyamus (Egypt) 60 bls.
Indigo (E.I.) 245 cs.
Ipecac. (N.Y.) 11 bgs.
Juniper-berr. (It.) 24

Lavender (Sp.) 10 bls.
Lead acetate 54
Lemon oil 50 cs. (*see also* Ess. Oils)
Lime-ju. (Jam.) 10 pns.
Linseed (E.I.) 227,675 bgs.
Liquorice-juice (It.) 35
Liquorice-root (It.) 60, (Sp.) 193 bls.
Lycopodium 383 pkgs
Mastich (Fr.) 35
Menthol 105 cs.
Mint oil (Jap.) 176 cs.
Mustard-seed 615
Myrrh (E.I.) 88 pkgs.
Naphthol (N.Y.) 16 brls.
Nux vom. 1,088
Olibanum (B'bay) 120
Olive oil (Fr.) 132 brls. 59 cs., (Sp.) 255 brls.
Opium (B'bay) 100 cs.
Orange-peel (Fr.) 21 cs.
Papain (Cey.) 21
Perfumery (Fr.) 113 cs.
Pimento 1,221
Potash carb. (Russia) 173 cks.
Potash cyanide (Mont.) 14 cs.
Potash iodide (Jap.) 50 pkgs.
Potash salts (Norw.) 52, (Calcutta) 451 cs.
Potash sulphate (Calcutta) 100
Quinine (Amst.) 46 cs.
Rape oil (Jap.) 2,006
Roots, barks, herbs, etc. (Fr.) 401 pkgs., (N.Y.) 94 bls.
Saccharine (Fr.) 2 cs. 20 cks.
Sal acetos 60
Saltpetre 4,100 bgs.
Sandalwood - chips 525
Sarsaparilla (N.Y.) 20
Seedlac 31
Senna (P. Sudan) 102, (Colombo) 117, (Aden) 17, (Suez) 213, (P. Said) 53
Sesame-seed 41,150
Shark oil 2,500 cs.
Shellac 1,940; button 173; garnet 1,300
Soda caustic (N.Z.) 20 dms.
Soda nitrate 3,100 tons 8,915 bgs.
Soda salicylate (N.Y.) 20 brls.
Sodium metal (It.) 100 cs.
Soy (Ch.) 399 cks.
Soya oil 8,000 cs.
Sperm oil (Jap.) 1,500
Sticklac (S.S.) 407
Sulphur 114 brls. 3,814 bgs.
Tamarinds (B'bay) 154
Tartar (Sp.) 178, (Lisbon) 137, (Fr.) 189
Tartaric ac. (Fr.) 20 brls., (It.) 526 brls.
Terpineol (It.) 30 cs.
Turmeric 4,947 bgs.
Vanilla (Fr.) 74 cs., (N.Z.) 15 cs.
Wax, bees' (B'bay) 41 cs., (Aden) 45, (Fr.) 26 cs.
Wax, veg. (Jap.) 200 cs.
Wood oil 720 cks. 2,760 cs., (Jap.) 300 cks.

To Liverpool.

Acetic acid (N.Y.) 692 brls., (Boston) 54 brls.
Albumen (Ch.) 479
Alcohol (Canada) 386 dms., (N.Y.) 110
Alum (U.S.A.) 56
Alumina sulph. 105
Ammon. anhyd. 374
Aniline salts (N.Y.) 32 cks.; aniline dyes 32 pkgs.
Antim. ore 4,361
Arachis oil 16,500 cs. 1,020 cks. 150 dms.
Balsams (N.Y.) 10 cs., (Para) 54 cs.
Barytes (Sp.) 25 brls., (It.) 250
Betanaphthol (N.Y.) 16 brls.
Boric acid (N.Y.) 500 brls.
Calc. acetate (N.Y.) 2,544, (Canada) 4,656
Calc. borate 6,462
Calc. chlor. (N.Y.) 164
Calc. citrate (W.I.) 10 bgs.
Cinchona (Mollendo) 57 bls., (Callao) 15 bgs. 371 bls.
Citric ac. (It.) 20
Cochineal 17
Cod oil (St. John) 100 brls.
Cod-liver oil (Jap.) 100 cs.
Copra 5,843
Cream of tartar (It.) 40 cks., (Sp.) 27 cks., (Fr.) 36 cks.
Dimethylalino (N.Y.) 15 dms.
Drugs, etc. (Fr.) 91 cs. 85 pkgs., (N.Y.) 75 pkgs. 188 cs.
Essent. oils (Sp.) 12 cks.
Eucalypt. oil 500 cs.
Formaldehyde (N.Y.) 91 brls.
G. almedina (Port.) 150 pkgs.
G. copal 86 bgs.
G. damar 50 cs.
Glycerin, cr. (N.Y.) 36 dms., (Port.) 18 dms., (Sp.) 12 dms., (Fr.) 720 dms.
Ground-nuts (W.C. Af.) 9,542 bgs.
Honey (Hawaiian) 98 cs., (Cal.) 74 cs., (Jam.) 414 cks., (Chile) 17, (N.Y.) 72 brls.
Ipecac. (M. Video) 167, (B. Aires) 19
Kola (W.C. Af.) 98
Lactic acid (R'dam) 10, (Boston) 136
Lemon oil (It.) 36 pkgs.
Lime-juice (Dem.) 11 hds.
Manna (It.) 23 cs.
Naphthol (N.Y.) 11 brls.
Olive oil (Fr.) 142 cs., (Sp.) 134 cs. 778 brls., (Lisbon) 15 cs., (It.) 460 pkgs.
Orchella 241
Palm-kernels (W.C. Af.) 85,954 bgs.
Palm oil (W.C. Af.) 4,227 cks.
Paraffin itraniline (N.Y.) 7 brls.
Potash 25, (Mont.) 44 brls.
Quebracho ext. 30,000
Quicksilver (Sp.) 3,000 bott.
Rape-seed (Karachi) 4,490 bgs.
Rhatany 493 pkgs.
Saffron 1 cs.
Soda caustic (N.Y.) 710 dms.
Soda nitrate 1,600 t. 42,152 bgs.
Soya oil 1,020 cks.
Sulphur (Sic.) 3,908 pkgs.
Tartaric ac. (It.) 78 brls. 90 cks.
Turpentine 5,950
Wine-lees (Fr.) 142

To Bristol.—Cottonseed (E.I.) 7,488 cwt.; cream of tartar (Fr.) 94 cks. 30 cs.; linseed (E.I.) 30,000 cwt.; olive oil (It.) 270 pkgs.; tartaric ac. (Fr.) 20 cks. *To Folkestone.*—Chemicals (Fr.) 17 pkgs.; drugs (Fr.) 62 pkgs.; perfumery (Fr.) 120 pkgs. *To Hull.*—Cantharides (Russ.) 8 cs.; castor oil (Calcutta) 50 cks.; castor-seed (E.I.) 8,491 bgs.; chemical prod. (N.Y.) 227 brls. 290 cs., (Fr.) 1,003 pkgs. 460 bgs., (R'dam) 239 blns.; cottonseed (Alex.) 9,024 bgs. 26,200 cwt.; cream of tartar (It.) 14 cks., (Fr.) 50 cks.; ergot (Russ.) 76 bgs.; 10 cs.; galbanum (Russ.) 10 sks.; gum copal (W.C. Af.) 14,307 bgs.; gums, undescribed (W.C. Af.) 1,444 pkgs.; honey (It.) 38 brls.; lemon oil (It.) 11 cs.; linseed (E.I.) 146,342 bgs., (Russ.) 1,525 tons 8,910 bgs.; lycopodium 180 sks. 36 bgs. 34 cs.; palm oil 566 cks.; pimento (W.C. Af.) 17; potash carb. (Russ.) 171 cks.; quebracho ext. 5,818; rape-seed 13,726 bgs.; tartaric ac. (It.) 60 brls.; worm-seed (Russ.) 198 sks. *To Manchester.*—Albumen (It.) 15 cs.; arachide oil (R'dam) 270 cks.; barium chlor. (It.) 64 cks.; calc. acetate 280 bgs.; citric acid (Palermo) 80 cks.; cream of tartar (Palermo) 126 cks., (U.S.A.) 20 kgs.; dextrin (N.Y.) 200 bgs.; lactic acid (R'dam) 12 cks.; lemon-juice conc. (It.) 25 cks. 10 pps.; lemon oil 10 cs.; phosphorus (Mont.) 450 cs.; magnesite (It.) 197 tons; potash (Mont.) 11; potash chlor. (Mont.) 100 kgs.; olive oil (It.) 50 bxs.; shellac 400 cs., garnet lac. 500 cs.; soda, caustic (U.S.A.) 500 dms.; squill 32 bgs.; sulphur 127 cks. 3,309 bgs.; tannic acid (N.Y.) 40 brls.; tartar emetic 7 cks.; tartaric acid (It.) 8 brls. *To Southampton.*—Perfumery (Fr.) 22 pkgs.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Use of the Red Cross.

SIR,—I am commanded by the Army Council to state that a large number of cases have been brought to their notice in which chemists have been displaying for sale articles bearing the Red Cross emblem and making use of the words "Red Cross" for purposes of trade and advertising, contrary to the provisions of the Geneva Convention Act, 1911. There would appear to be a misconception that the use of the Red Cross emblem on surgical and medical appliances is legitimate. This, however, is not the case, and the Council are unable to give any authority for the use either of the emblem or the words "Red Cross" for purposes of trade or advertisement; and I am to ask you to be good enough to give this statement publicity in your journal in order that the misuse of the Red Cross emblem referred to above may be checked.

I am, Sir, your obedient servant.

War Office, London, S.W., July 15. B. B. CUBITT.

[As explained in the *C. & D. Diary*, 1916, p. 363, November 1, 1915, was the last date upon which the Red Cross could be used in trade legally.—EDITOR *C. & D.*]

Intramine and Ferrivine.

SIR,—THE CHEMIST AND DRUGGIST of July 15 quotes from "The Lancet" an account of a test made recently in the use of intramine and ferrivine in the treatment of syphilis by Lieutenant-Colonel Harrison and Captain Mills, the trend of whose publication was to depreciate these remedies and Mr. McDonagh's research-work. We shall be grateful if you will give equal publicity to the other side of the picture. The statements of these two Army doctors were at once challenged by Mr. McDonagh ("The Lancet," June 24, 1916, p. 1,277), and it will be clear to any reader of the correspondence that Messrs. Harrison and Mills failed to substantiate their allegation as to eminent chemists being unable to understand Mr. McDonagh's chemistry. While we express no opinion on the clinical aspects of the discussion, we may draw attention to the following:

(1) Mr. McDonagh states ("The Lancet," June 24, 1916, p. 1,277):

"I should not be using ferrivine and intramine every day if I was not firmly convinced that my patients were gaining advantages unobtainable with other existing remedies."

And again ("The Lancet," July 15, 1916, p. 121):

"From the 400 odd injections of ferrivine and intramine I have administered I have proved, I think, beyond all doubt that ferrivine will do exactly what salvarsan will not do, and *vice versa*. Ferrivine will remove indurative chancres, lymphangitis, and lymphadenitis, which salvarsan will not, but it will not cause the uniform disappearance of mucous papules, lesions which are particularly sensitive to salvarsan. Intramine acts as a complement to any metallic compound, and has caused lesions to disappear which have either been aggravated or have not responded to salvarsan. The rapidity with which intramine will remove the induration of chancres and the resistant skin papules is extraordinary."

(2) Mr. Harold Spence ("The Lancet," April 22, 1916) reports a number of cases, one of which was exhibited at the Royal Society of Medicine, in which intramine had had extremely beneficial effects.

(3) Reports reach us from various sources, through our representatives, of cases in which intramine is giving highly useful results.

(4) On the occasion of the annual meeting of the London Dermatological Society Dr. H. Braund, in discussing a case, stated:

"After the first intramine injection the ulcer had practically closed in, and the patient did not complain of any pain either during or after the injection."

This favourable report drew a further attack on intramine from Colonel Harrison, whose criticisms and general attitude appear to be actuated by something other than a plain desire to elicit truth. The results recorded seem to prove the efficacy of ferrivine and of intramine, and the comparative painlessness of the latter when properly administered. Yours faithfully,

THE BRITISH DRUG HOUSES, LTD.

Graham Street, City Road, N.

A Curriculum for Chemists' Apprentices.

Jay Mack sends us an interesting letter bearing on the recent utterance by Mr. Edmund White (President of the P.S.G.B.) to the effect that suggestions would be welcomed in reference to the proposed changes in the Minor examination syllabus. "Jay Mack" is collating his suggestions from articles in the *C. & D.* and proposes to let us have in condensed form an up-to-date curriculum which will be applicable to every village or city pharmacy, and will help the retailer by increasing the efficiency of his staff at an early age, while leaving the way free for those students who aim at the higher branches of our very varied craft.

War Savings.

Sir,—We have pleasure to inform you that we have put up the appended notice in our three establishments: our warehouse at 75 Farringdon Road, our factory at Victoria Park, E., and our factory at Apsley End, Hemel Hempstead. Yours faithfully,

G. B. Kent & Sons, Ltd.
A. Barton Kent, Director.

If any employé will undertake to subscribe 6d. per week for a War Savings Certificate the company will buy the Certificate at once, so that it bears interest from date of subscribing the first 6d., and as soon as thirty sixpences are subscribed the company will pay the last sixpence and hand over the Certificate. The limit is five Certificates per individual.

By Order of the Board.

Anzac Trade-mark.

Sir,—The circular which the Board of Trade has recently issued urging that the word "Anzac" should not be used as a trade-mark or name for goods seems to take no account of the fact that quite a number of firms have already registered this word as a trade-mark for their goods, and have thereby acquired the sole right to use the word as against any infringers. Applications to register this word became very numerous some little time ago, and more than once we had to inform inquirers that they were too late, as the word had already been appropriated by other persons who had acted more promptly. About a month ago the Registrar of Trade-marks took the unusual step of publicly announcing that he would refuse to accept any further applications for registration of "Anzac." We now suppose that this was done at the request of the Board of Trade, and doubtless it has had the effect of preventing further futile applications being made by persons who mistakenly believed themselves to be the first applicants. Meanwhile the position of those who are already upon the Register of Trade-marks is, we believe, unaffected by the Board of Trade circular, as it appears that their registration was legally obtained under the provisions of the Trade-marks Act. The Registrar of Trade-marks has not yet decided that "Blighty" is a geographical name, and, as it was with "Anzac," the rule of "First come, first served," is being applied in this case also. Yours faithfully,

Stanley, Popplewell & Co.

38 Chancery Lane, W.C.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

What is "4.7"?

J. T. (19/67) has been asked for a draught called "4.7," which is stated to be a great cure in the morning. He has been told that it is well known in Manchester and other large English centres. What is it?

Warnings to Photographic Chemists.

Mr. C. F. Cullingham, 2 Station Parade, Ealing Common, W., repeats a warning which has been given in the *C. & D.* against supplying cameras to customers on approval, several cases having occurred in which the cameras have been stolen. Various plausible tales are told so as to obtain possession of the cameras, the names of the dealer's customers being given, for example.

Messrs. J. W. Lasham, Romford, inform us that a warrant is out for the apprehension of a camera-customer, who is fairly tall, thin, with square, sunburnt face, hollow cheeks, dark-brown eyes, and wearing a dark felt hat and long fawn raincoat; his age is about thirty-five. He has a most plausible manner, usually spins a yarn about a delicate wife who wishes to select a camera. At Romford he got a 1A F.P.K., R.R. 97968, and 1A Auto Guinea 140249. The local police have full particulars of him, and should assist any chemist who receives a visit from the man.

Trench Note.

Perioscope (20/30) writes: "With a varied experience of more than forty years, it occurs to me that we chemists are very generally somewhat nervous-minded (men of rote rather than note). Perhaps poor 'Pilgarlie' does not see much of the world beyond his four walls. Since the days of my apprenticeship, when the rule was to make everything that could be made for use in the pharmacy, I do not remember ever preparing, or seeing prepared, hyd. c. cretâ. Having depleted my stock the other day (I am five miles from civilisation), it occurred to me to make some, which I did, and found it occupied me fifteen minutes. (It would take a little longer if suffering from rheumatism or lazytitis). Having made it I looked up the cost. Net wholesale 3*s.* lb.; making it in small quantities it cost me 1*s.* 4*d.*"

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1916, beginning on page 341.

R. D. P. S. I. (119/35).—The decision in regard to the use of the title "veterinary chemist" was given in England in favour of a pharmaceutical chemist. As you are not a registered chemist, but simply a registered druggist, we question if the English decision will cover your use of the title in Ireland; moreover, under the Irish Pharmacy Acts you cannot legally use the title "chemist" in trading.

S. G. M. (20/68).—The order of the Central Control Board (Liquor Traffic) in regard to the sale of medicated wines and spirituous medicines was printed in the *C. & D.*, July 15, p. 34, and commented upon on p. 42. As to your points: (1) You are wrong in supposing that the order "applies only to medicated wines, ordinary wines, and proprietary articles." It does not apply to ordinary wines, and proprietary articles of a spirituous nature are not mentioned, but they are included by the general terms of the order in the (*b*) class of preparations mentioned after medicated wines. (2) The sale of anything coming within the (*a*), (*b*), (*c*) definitions in the second clause [following the first (*a*) and (*b*)] is not affected, but it does not follow that a proprietary mixture containing a B.P. or B.P.C. spirit is exempt. It appears to be B.P. and B.P.C. preparations alone that are exempt, but the exemption also occurs if these preparations are used in accordance with (*b*) and (*c*). (3) Your assumption that the order does not apply to preparations other than mixtures for internal use must be inaccurate, because exemption (*c*) covers the sale of methylated spirit made up in a medicine, and the Excise regulations clearly indicate that medicines made with methylated spirit are for external use. Advice to chemists generally in regard to the sale of genuine medicines is given in an editorial note.

Miscellaneous Inquiries.

H. B. (19/16).—Proof Spirit in Medicated Wines.—Dilute a measured volume of the wine with water—*e.g.*, 5 oz. of the wine with 5 oz. of distilled water. Distil about 5 oz. of the mixture, making it up, after cooling to 60° F., to 5 oz. exactly by adding distilled water. From the specific gravity of this distillate determine the amount of proof spirit that it contains. You will find in Thorpe's "Dictionary of Chemistry" tables giving the factors, or you may consult Thorpe's "Alcoholometric Tables" (Longmans, Green & Co., 3*s.* 6*d.* net).

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 14, 1866.

The B.A.

At the forthcoming meeting of the British Association, in Nottingham, the opening address will be delivered in the new theatre by Mr. W. R. Grove, Q.C., F.R.S., the President-elect. Excursions of scientific interest will be taken to the Midland Railway works at Derby, Eastwood Ridings, Cinderhill, Annesley (the birthplace of Lord Byron's "Mary"), Newstead Abbey, the Derwent and Wye Valleys, and Charnwood Forest. The Dukes of Devonshire and Rutland, Mr. W. F. Webb, Mr. Ambrose de Lisle, and other gentlemen have volunteered to entertain the members of the Association at the above places.

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL

Re-education of the Intestine.
Constipation, Enteritis. Hæmorrhoids, Indigestion, Skin Blemishes, &c.

Price **5/-** per box.

GLOBÉOL

Powerful Blood Tonic.
Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.

Price **5/-** per bottle.

PAGÉOL

Powerful Urinary Antiseptic.
Gonorrhœa, Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, Hypertrophy of the Prostate, etc. etc.

Price **5/-** and **11/-** per box.

JUBOLITOIRES

Scientific Suppositories.
Hæmorrhoids, Rectitis, Anal Fistula, etc.
Anti-hæmorrhagic, Sedative, De-congesting.

Price **5/-** per box.

URODONAL

Powerful Uric Acid Solvent.
Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.

Price **5/-** and **12/-** per bottle.

VAMIANINE

New Scientific Preparation for Syphilis, Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price **11/-** per bottle.

GYRALDOSE

Antiseptic for local Gynæcological use.
Leucorrhœa, Metritis, Salpingo-Ovaritis, Discharges, etc.

Price **4/-** per box.

FANDORINE

Internal remedy for Women's diseases, Metrorrhagia, Dysmenorrhœa, Irregularities, Pregnancy, Lactation, Pains, etc. etc.
Price **5/-** and **11/-** per bottle.

SINUBÉRASE

Remedy for Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Infectious Diseases, Skin Eruptions, etc. etc.
Price **5/-** per bottle.

FILUDINE

Specific for the Liver.

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

Price **11/-** per bottle.

Heppells

BRITISH AND COLONIAL AGENTS—
Foreign Chemists, 164 PICCADILLY, LONDON, W.
Stocked by all Wholesalers. Now being largely advertised.

Tetanus Antitoxin Mulford

For the prevention and treatment of Tetanus following shrapnel and rifle wounds

Immunizing dose, 1500 units

Small Therapeutic dose, 3000 units

Therapeutic dose, 5000 units

Potency and Purity Guaranteed

In vials or syringes



Antistreptococcic Serum, Antimeningitis Serum and a full line of Biological Products

Bismuth-Formic-Iodide Comp. Powder Mulford
The ideal dry surgical dressing
Send for sample

H. K. MULFORD COMPANY, Philadelphia, U. S. A.

Manufacturing and Biological Chemists

LONDON: 119 HIGH HOLBORN, W. C.

Distributing Agents: THOMAS CHRISTY & CO., Old Swan Lane, London, E. C.

FUERST BROTHERS

17 PHILPOT LANE — LONDON, E.C.

MODERN PLANT FOR CHEMICAL WORKS MADE IN ACID-PROOF

STONEWARE

TANKS, STOPCOCKS, SUCTION FILTERS, VALVES, ACID ELEVATORS, BASINS, &c.

Telegrams: "FUERST, GRACE, LONDON."

Telephone: London Wall 4350 (4 Lines).

WE CAN OFFER FIRST HAND

SODA SULPHATE (PEA XTALS.)
ACETIC & OXALIC ACID.
ACID TARTARIC. QUININE.
SODA HYPOSULPHITE.
FORMALDEHYDE.

A. D. CHESTER & CO., LTD.

Chemical Works, Drummond Road, Bermondsey, London.
Telephones - - Nos. 6 and 4782 HOP.

'Phone: Battersea 1612.

V. A. PICERNO,

116 St. John's Hill, CLAPHAM JUNCTION, LONDON, S.W.

INQUIRIES SOLICITED FOR

Drugs and Chemicals

(TECHNICAL & PHARMACEUTICAL).

Acid Citric	Lithium Carbonate	Quinine Salts
,, Gallic	Lycopodium	Salicylates
,, Lactic 50% Edible	Magnesium Metal	Salol Santonine
,, Tannic Leviss	Magnesium Sulphate	Soda Benzoate
Barium Binoxide	Mannit	,, Hyposulphite
Cream of Tartar 99½%	Naphthaline Balls	Tartar Emetic 43/44%
Creosote B.P.	Phenazone	Terpine Hydrate
Hexamine	Phenacetin	Urea, pure cryst.

And all products used in the Pharmaceutical Industry for Prompt or early Delivery.

THE FABRA COMPANY, LTD.

24 Minories, LONDON.

Lloyds Bank Bldgs., MANCHESTER.

54 Gordon Street, GLASGOW.

ACETIC ACID, 70% & 80%
BISMUTH SALTS
BROMIDES
HYDROKINONE
PHENAZONE
SALICYLATES

Vicar Lane, BRADFORD.

Powvalla Buildings, 237 Hornby Road, BOMBAY.

29 Broadway, NEW YORK.

EPSOM SALTS, Druggist and Commercial Qualities.
ZINC SULPHATE, Druggist and Commercial Qualities.

Prompt and forward deliveries. Inquiries solicited.

WILLIAM BLYTHE & CO., LTD.,
CHEMICAL MANUFACTURERS, CHURCH, LANCASHIRE.

IMPORTANT NOTICE
TO ALL
RETAIL CHEMISTS

THE sale and manufacture of **Voleated Oxygen Jujubes** has now been discontinued, and as we have for some months past been disposing of our stocks at a very low figure, we would again remind all Retail Chemists that we cannot accept for credit, or exchange, any returns of this Proprietary.

PARKER, BELMONT & CO., 32/34 THEOBALD'S RD., LONDON, W.C.

THE SEASON FOR
Anti-Parasitic Powder
Antiseptic Foot Powder
Anti-Thirst Tablets
IS NOW ON

Write for Prices. We can offer advantageous prices for these lines.

SHOWCARDS SUPPLIED.

DUNCAN, FLOCKHART & CO.
EDINBURGH & LONDON, 155 Farringdon Road, E.C.

AGENCY WANTED.

Russian gentleman, resident in Moscow, with large connection among those dealing in DRUGS, CHEMICALS and Chemists' Side Lines, seeks Agency for English firm for Russia. Write:

I. LINCOFF, Post Office Box 863, Moscow, Russia.

Cable Address: "CELAITCH, NEW YORK."

CHAS. L. HUISKING,

5 PLATT STREET, NEW YORK CITY,

Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.

TOMODA & COMPANY,

WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny,) Singapore. FACTORY: Hiranuma, Yokohama.
LABORATORY: Marunouchi, Tokyo.

THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil, Argent Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylic Soda, Sulphate Iron, Staraniseed, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger, etc. etc. Also Glass Wares and Bottles.

Correspondence respectfully invited to

TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.

MALLINCKRODT CHEMICAL WORKS

OF CANADA, LIMITED.

The products of our manufacture are of the purest and highest standard.

We are in a position to offer to the Mother Country and Sister Colonies a full line of Pharmaceutical and Photographic Chemicals, and solicit your inquiries for

Acid Pyrogallic Crystals and Resublimed	Hydroquinone
Acid Gallic	Rhodol (Metol)
Trional (Methyl Sulphonal)	Acid Tannic
Cocaine & Morphine Salts	Sulphonal
	Hexamethylenetetramine

CABLE ADDRESS - "MALLCHEM MONTREAL."

McKESSON & ROBBINS

ESTABLISHED 1833

91 Fulton Street (McK&R) New York, U. S. A.

Offer

AMERICAN DRUGS AND CHEMICALS

and Invite Correspondence.

Foreign Distributors for

New York Quinine and Chemical Works, Ltd.

MAKERS OF

QUININE, MORPHINE, CODEINE, ACETANILIDE, etc.

Our representation is as follows :

LONDON—C. F. Gerhardt, 5 Fenchurch St.
LIVERPOOL—Matthew Bell & Co., 6 Rumford Pl.
MILAN—Albino Villani, Via Revere 10.
MELBOURNE—Geo. Wills & Co., Ltd., G. P. O. Box 357.
MARSEILLES—O. Gross & Co., 8 Rue Jaubert.
AMSTERDAM—Gust. Briegleb.
SEVILLE—H. de la Mata Monge, Monardes 2.
BUENOS AIRES—William Burmester.
AUCKLAND.—Kemp'horne Prosser & Co.'s New Zealand Drug Company, Ltd.
PARIS—L. Barberon, 15 Place des Vosges.

THE
WHITE TAR CO.
4 Cliff Street, New York City,
N.Y., U.S.A.



Importers and Exporters of

HEAVY CHEMICALS

AND

Naphthaline Products.

Monsanto Chemical Works,

ST. LOUIS, MISSOURI, U.S.A.

Manufacturers of

ACETANILID.

ACETPHENETIDIN (PHENACETIN). **CAFFEINE** (Pure Alkaloid).

CHLORAL HYDRATE. **COUMARIN.**

GLYCEROPHOSPHATE OF CALCIUM.

Glycerophosphate of Sodium

Pure Crystals.

Glycerophosphate of Sodium

Pure Crystals Powdered.

GLYCEROPHOSPHATE of SODIUM 75%
Glycerophosphate of Potassium 75%

Also Glycerophosphate of Iron, Manganese, Magnesium.

Phenolphthalein. Saccharin. Vanillin.

New York Branch : Platt and Pearl Streets.

The Lazard Godchaux Co.

LIMITED.

DYESTUFFS. CHEMICALS

Walter House, 422 Strand, W.

Telephones: Gerrard 4755, 4756.
Telegraph: Lazard 422 Strand.

***New York Offices:* 92 William St.**

BRUSSELS (Belgium); VIEUX-CONDE (France).

ACETANILID
ACETATE OF LEAD
ACETYL SALICYLIC ACID
ACID CITRIC
" LACTIC
" SALICYLIC
" TARTARIC
CALCIUM CHLORIDE
CAMPHOR FLOWERS
" CRUDE
CARBONATE OF LITHIA
" MAGNESIA
CHLOROPHYLL
CREAM OF TARTAR
HYDROQUINONE
PHENACETIN
POTASH CARBONATE
" CHLORATE
" PRUSSIATE YELLOW
PROTEINATE OF SILVER
SALOL
VANILLIN

AMYLOSE WOOL FINISH
ANILINE OIL AND SALT
ANTHRA COLOURS FOR LEATHER
BETA-NAPHTHOL
BICHROMATE SODA
FORMATE OF SODA
GLYCOLE, SUBSTITUTE FOR GLYCERINE
HEMATINE
HYDROSULPHITE N.F. CONC.
LOGWOOD
PARANITRANILINE
PARAPHENYLENEDIAMINE
SULPHUR BLACKS
" BROWNS
SULPHIDE OF SODIUM
TANNIC ACIDS (ALL QUALITIES)
TITANIUM POTASSIUM OXALATE

Headquarters for :—
Pharmaceutical Products and all Chemicals for Textile Industries.

Inquiries Solicited.
We Specialise in Export. Best Terms from English and Foreign Ports, and F.O.B. New York.

BECKER, SHILLAN & CO.,

40 EASTCHEAP, E.C.,

OFFER

EPSOM SALTS

DRUGGISTS' QUALITY,

£13 0 0 per ton in 3 cwt. kegs.

EPSOM SALTS

COMMERCIAL,

1 cwt. bags at £11 per ton.

Telep.: Aven. 5333. Telegrams:
" 5334. "Beckdietz."

And at 15 STANLEY STREET, LIVERPOOL.

THE
BRITISH DIAMALT COMPANY

ARE NOW SELLING
DIRECT TO CHEMISTS

1. Dry DIAMALT
2. DIAPARAFFIN
3. MALTOLACTON
4. Liquid DIAMALT
5. Liquid DIAMALT (with 15% by weight of Cod Liver Oil).
6. Liquid DIAMALT (with 33% by weight of Cod Liver Oil).

ON P.A.T.A. LIST.

Head Office: BISHOP STORTFORD

SUGAR OF MILK

Trade HMS Mark.

Made in Holland

THE BEST IN THE WORLD.

Always of the purest standard and corresponding with the requirements of any Pharmacopœia.

N. V. Hollandsche Melksuikerfabriek, Amsterdam.

EMETINE HYDROCHLORIDE HYDROBROMIDE

WHIFFEN & SONS, Ltd., BATTERSEA, S.W.

PATTINSON'S

PATTINSON'S MAGNESIA PATESIA TRADE MARK

MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, **ENGLAND.**

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C.

ESTABLISHED 1772.

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity by

Messrs. THOMAS & WILLIAM HENRY, 11 East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a Government Stamp, bearing their name. Trade Mark, "Henry's Calcined Magnesia."

PRICE 4s. 6d. or 2s. 9d.

NEW YORK: Messrs. SCHIEFFELIN & CO., William Street. PARIS: Messrs. ROBERTS & CO., 5 Rue de la Paix.

SCIENTIFIC ORGANOTHERAPY PRODUCTS

"OPOCAPS" (Regd.) and SPECIAL REGISTERED PRODUCTS.

Lymphoid Compound, Lymph Serum, Ovamammoid Compound, Adrenin (B.O.C.), Hæmatothyroidine, Retronituitroi, Eukinase, Pancreatokinase, and Extracts Thyroid, Thymus Suprarenal, Splenic, Red Bone Marrow, Prostatic, Placenta, Pituitary, Parathyroid, Lymphatic, Corpora Lutea, Biliary, Renal, Hepatic, Gastric Mucosa, and all other Organo-therapeutical Preparations employed in Modern Medicine.

THE BRITISH ORGANOTHERAPY CO., Ltd., Carlton House, Lower Regent St., London, S.W.

Telephone—Gerrard 7111. *Telegrams—"Lymphoid London."*

EMIL SCHELLER & CO. S.-A. ZURICH (SWITZERLAND.)

Offices: Zurich—Hottingerstr. 21; Cacilienstr. 5.

SWISS FIRM. Founded 1877.

Works at Dietikon, near Zurich.

CHEMICALS & PHARMACEUTICAL PRODUCTS—SWISS MADE.

Acid Diethylbarbituric	Perthyol and Thiopertol	Silver Proteinate
Acetyl Salicylic Acid	Quinine Sulphate	,, Colloidal
Cumarin Crystals	,, Ethylcarbonate	Theobromin (pure alkaloid)
Methylsulphonal	Sulphonal	,, Sodium Salicyl.
etc.	etc.	etc.

Our Specialities: **FERRESCASAN**—A remarkable, tasty, blood-forming, appetising and nerve strengthening iron preparation. Marvellously efficacious in all kinds of debility.
SIROP ESCA—Against all diseases of the respiratory organs.
LAXATIVE LOZENGES ESCA—Best remedy, harmless, but most effective against Constipation Colic, Congestion, Piles, &c.

Swiss National Exhibition, Berne, 1914, Gold Medal.

ASPIRIN.

Antipyrin.	Albumen Ferrat.
Quinine Sulph.	Silver Proteinate.
Soda & Acid Salicyl.	Naphthaline Balls.
Beta Naphthol.	Vanillin.

HARTLEY FLOREY,

54 Lower Thames Street, London, E.C.

Phone: Avenue 3889. Telegrams: Yerolftrah, Phone, London.

Solyptol Soap

A high-grade Toilet Soap of marked Antiseptic properties.
Non-irritating.
Agreeably perfumed.
Lathers in hard water.
Assists the complexion.
Heals cuts & abrasions.
Invaluable in the Nursery.

TOILET SOAP, 10d. SHAVING SOAP, 10d.

A READY SELLER WITH GOOD PROFIT.

Chemists should write for terms.

F. H. FAULDING & CO., 54 Ct. Tower St., London, E.C. Adelaide, Perth, Sydney, Australia.

Stocked by all Patent Medicine Vendors.

Finest Norwegian Medicinal Non-Freezing

COD LIVER OIL

(GUARANTEED NORWEGIAN)

WRITE FOR PRICES TO—

ISAAC SPENCER & CO. (Aberdeen) Ltd., ABERDEEN

WE CAN GIVE PROMPT DELIVERY.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

PETROLEUM JELLY

We are importers of finest American Jelly, Red, Yellow and White. Guaranteed B.P. Inquiries esteemed also for

GUMS. WAXES. DEXTRINE.

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON." Telephone: AVENUE 8057.



GOLD MEDAL, CAPE TOWN EXHIBITION, 1904-5. GOLD MEDAL, LONDON, 1913.

"LIQ. SANTAL. FLAV. c. BUCHU ET CUBEBA"

(HEWLETT'S).

THE ORIGINAL PREPARATION

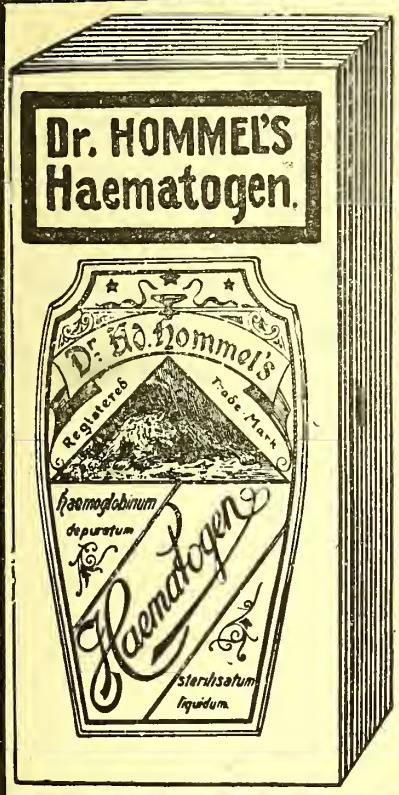
Many pharmacists have assured us that even when the name **"HEWLETT'S"** is not appended to the above title they invariably dispense HEWLETT'S preparation, as they know from experience that it is the best, that it keeps indefinitely, and universally gives satisfaction, whilst imitation preparations vary so considerably, not only from the **original** but from each other, that patients notice the difference, and complain.

Price 11s. per lb., packed, for dispensing only, in 10, 22, 40, and 90 oz. Bottles.

INTRODUCED AND PREPARED ONLY BY

C. J. HEWLETT & SON, Ltd., Wholesale and Export Druggists

35 TO 42 CHARLOTTE STREET, LONDON, E.C.



Please Note that

DR. HOMMEL'S HÆMATOGEN

is, and always has been, manufactured in

SWITZERLAND

by Swiss Proprietors,

and that a continuous supply is assured.

NEITHER THE WHOLESALE OR RETAIL PRICE HAS BEEN INCREASED.

All Orders will be carefully attended to as hitherto.

Sole Agents for Great Britain, India, and Colonies:

GERTH VAN WYK & CO.,

36 & 36a St. Andrew's Hill, LONDON, E.C.

ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON,
11 Russell Street, C.-on-M., MANCHESTER.

DOES NOT CONTAIN any SCHEDULED POISON.

STOCK.

(WHOLESALE ONLY.)

EPSOM SALTS, ZINC SULPHATE
HYPO. SODA, LEAD ACETATE
BEECHWOOD CREOSOTE
CARBONATE POTASH
And other Chemicals.

PETRI BROTHERS,
39 LIME STREET - - LONDON, E.C.

MILK POWDER

SOWALT BRAND

Full-cream and separated,
of strictly finest quality.

FOR QUOTATIONS APPLY TO

NALBOROUGH & SONS, LTD.
HARWICH, Essex.

THE WAR OFFICE HAS AUTHORISED the use of

"VERMIJELLI"

by the Troops, after very exhaustive investigation by the I.R.A.M.C., on the relative values of Vermicidal substances.

NON-POISONOUS. NON-INFLAMMABLE. MIXES WITH WATER.

The efficacious preventative and remedy for Lice, Fleas and other vermin.

Wholesale from *Sole Manufacturers:*—

S. BOWLEY & SON, Wellington Works, Battersea Bridge, London, S.W.

Prices: 1 lb. Tins ... 1/- each ... ... 1/5 each } Post
7 lb. ,, ... 6/9 ,, ... 7/9 ,, } paid
Collapsible Tubes 1/- ,, ... 1/4 ,, } in U.K.



HALL FORSTER & CO., LTD.
Manufacturing Chemists
NEWCASTLE-ON-TYNE.

P. H. MILNE COMPANY

MAKE

SAMBUCI

HEALING OINTMENT

AT

169 Brixton Rd., S.W.

Telegrams: "AMPHORA LEICESTER." *Telephone:* No. 540.

BRITISH MADE

ACETANILID

Crystal or Powder.

E. H. BUTLER & SON,
93 Humberstone Gate, LEICESTER.

BEECHAM'S PILLS.

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size ... ... 10s. 6d. per doz. net.
3s. 0d. ,, ... 26s. 6d. ,, ,,
5s. 0d. } new size ... ... 50s. 0d. ,, ,,
} contains double the quantity of 3/- box.

Beecham's Cough Pills:

1s. 3d. size ... ... 10s. 6d. per doz. net.
3s. 0d. ,, ... 26s. 6d. ,, ,,

Beecham's Tooth Paste:

IN COLLAPSIBLE TUBES:
1s. 0d. size ... ... 7s. 6d. per doz. net.

Orders: Minimum quantity £5 value—approximately. | ***Packages FREE.*** ***Carriage PAID.***

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM,** and crossed "Parr's Bank, Ld., St. Helens."

N.B.—Prices quoted herewith are for preparations according to the New Pharmacopœia, 1914.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below:

N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Fol. Sennæ Tinnev., 1 cwt. @ 10d. lb.; 7 lbs. @ 11d. lb.; Englisb Ground, 56 lbs. @ 1/– lb.; 7 lbs. @ 1/1 lb.
Formaldehyde, 40%, 4 cwt. barrels @ cwt.; 7 lbs. @ 1/4 lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 8/3 cwt.; 1 cwt. @ 9/6.

Gallæ Cærul. Pulv., 7 lbs. @ 2/– lb.
Gamboge, English Ground, 7 lbs. @ 5/6 lb.; 1 lb. @ lb.
Ginger, English Ground, 1 cwt. @ 60/– cwt.; 7 lbs. @ 8d. lb.
Gingerine, Extra, 5 lbs. @ 13/– lb.; 1 lb. @ 13/6.
Glycerin. Opt. D.D., 1.260 P.B., 56 lbs. @ cwt.; 12 lbs. @ lb.
*Glycerin. Acid. Boric, P.B., 6 lbs. @ 2/1 lb.
* ,, Acid. Carbolic, P.B., 6 lbs. @ 1/10 lb.
* ,, Acid. Tannic, P.B., 6 lbs. @ 2/5 lb.
,, Belladon. B.P.C., 6 lbs. @ 6/6 lb.; 1 lb. @ 7/– lb.
*Glycerin. Boracis, P.B., 6 lbs. @ 1/6 lb.
* ,, Pepsin. Acid, P.B., 1 lb. @ 3/3 lb.
* ,, Plumbi Subacet., P.B., 6 lbs. @ 1/11 lb.
Guaiacol Carb., 1 lb. @ 120/– lb.
Guaiacol, pure, 1 lb. @ 65/– lb.
Gum Acaciæ sorts, 3 cwt. @ 75/ cwt.; 1 cwt. @ 80/– cwt.; 7 lbs. @ 10d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/– cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 105/– cwt.; 14 lbs. @ 1/– lb.
Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 1/– lb.
Gum Tbus Elect., 2½ cwt. @ 48/– cwt.; 28 lbs. @ 52/–cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 12/ lb.; 1 lb. @ 12/6 lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/3 lb.
Heliotropine, 1 lb. @ 26/– lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/7 lb.
Honey, Pale Set, Jamaica, 28 lbs. @ 78/– cwt.; Californian, ½ cwt. @ cwt.; 7 lbs. @ lb.
Hydrargyrum, P.B., 10 lbs. @ 5/9 lb.; 1 lb. @ 6/– lb.; Ammon., 28 lbs. @ 7/11 lb.; c. Creta. 28 lbs. @ 2/6½ lb.; Iodid. Rub. 28 lbs @ 16/6 lb.; Oxid Rub., 28 lbs. @ 7/6 lb.; Perchlor., Lump, 28 lbs. @ 7/9 lb.; Subcblor. 28 lbs. @ 7/6 lb.; Sulph. c Sulph., 28 lbs. @ 7/– lb.; 7-lb. quantities 1d. lb. extra. 3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.
Hydrokinone, 1 lb. @ 4?/ lb.

Ichthyol Ammon. chemical equivalent: Ammon-Ichthosulpbonas, B.P Codex, 7 lbs. @ 7/– lb.; 1 lb. @ 7/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Buchu Conc., 1 to 7, 6 lbs. @ 2/8 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/10 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/9 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/10 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/7 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/9 lb.
Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/– lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10½ lb.
Iodoform Pulv. B.P., 7 lbs. @ 20/6 lb.; 1 lb. @ 21/– lb.
Iodum, resub. B.P., 7 lbs. @ 18/9 lb.; 1 lb. @ 19/3 lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/– lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/– lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/– lb.

Kamala, 7 lbs. @ 1/8 lb.; sifted, 2/– per lb.

Lapis Pumicis, fine powder, 2 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 18/– cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, 2-oz. Sticks, 1 cwt. @ 145/– cwt.; 28 lbs. @ 1/4½ lb.; 7 lbs. @ 1/5½ lb.
*Lin. Aconiti Meth., 5 lbs. @ 1/9 lb.; 1 lb. @ 2/– lb.
* ,, Bellad. Meth., 5 lbs. @ 8/3 lb.; 1 lb. @ 8/6 lb.
,, Camph. P.B., 40 lbs. @ 1/0½ lb.; 9 lbs. @ 1/1½ lb.
,, Sapo Meth., 9 lbs. @ 1/– lb.
,, Tereb. Acet., B.P., 5 lbs. @ 1/1 lb.
Linseed c. Oil, Crusbed, 3 cwt. @ 28/– cwt.; 1 cwt. @ 28/6 cwt.
*Liq. Ammonii Acetatis Conc. 1–7, 6 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.
* ,, Ammon. Aromat., 6 lbs. @ 10d. lb.
* ,, Antim. Chlor. Pure, 8 lbs. @ 10d. lb.
* ,, Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.
* ,, Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Bismuth, P.B., 6 lbs. @ 1/7 lb.
* ,, Copaiba Buchu et Cubeb, 5 lbs. @ 3/– lb.; 1 lb. @ 3/3 lb.
* ,, Easton, p.s. 1–3, B.P., 1 lb. @ 3/5 lb.
* ,, Ferri Dialysatus, 6 lbs. @ 1/2 lb.
* ,, Ferri Iod. p.s., 1–7, 1 lb. @ 8/– lb.
* ,, Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.
* ,, Ferri Phosph. Co. p.s., 1–7, 7 lbs. @ 1/7 lb.
* ,, Hamamelidis, B.P., 6 lbs. @ 1/3 lb.
* ,, Hypophosph. Co., p.s., B.P.C., 1 lb. @ 3/10 lb.
* ,, Iodi Fort, B.P., 5 lbs. @ 7/– lb.
* ,, Morpbinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 4/2 lb.
* ,, Opii Sed., 5 lbs. @ 6/3 lb.
* ,, Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.
* ,, Pruni Virg. p.s. 1–7, 5 lbs. @ 2/9 lb.
* ,, Rhœados pro Syr., 1 to 7, 5 lbs. @ 2/8 lb.
* ,, Rhei, p.s., 1–7, 6 lbs. @ 2/4 lb.
* ,, Santali Co., 1 lb. @ 4/6 lb.
* ,, Sennæ Dulc. 6 lbs. @ 1/8 lb.
* ,, Sennæ pro Syr. 1–7, 6 lbs. @ 3/4 lb.
* ,, Strychninæ Hyd. P.B., 6 lbs. @ 1/11 lb.
* ,, Tolut. pro Syr. 1–7, 6 lbs. @ 1/9 lb.
* ,, Trinitrini, B.P., 1 lb. @ 7/– lb.
Lithia Carb. P.B., 28 lbs. @ 6/– lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.
,, Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 13/6 lb.

Mag. Calc. Levis, 1 lb. @ 2/– lb.
Mag. Calc. Pond., 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.
Mag. Carb. Pond., 7 lbs. @ 11d. lb.
Mag. Carb. Levis., 1 cwt. @ 70/–; 7 lbs. @ 8½d. lb.
Mag. Cit. Gran., 28 lbs. @ 1/5 lb.; 6 lbs. @ 1/6 lb.
Mag. Sulph., fine druggists', B.P., 1 cwt. @ 19/6; 28 lbs. @ 2½d. lb.
Manna, Flake, 14 lbs. @ 5/10 lb.; 7 lbs. @ 6/– lb.; 1 lb. @ 6/6 lb.
Menthol, dry white cryst., 60 lbs. @ 11/1 lb.; 5 lbs. @ 11/10 lb.
*Mist. Sennæ Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 14/– oz.; 16 oz. @ 14/3 oz.; 8 oz. @ 14/6 oz.; 1 oz. @ 15/3 oz.; Pur. Præcip. Bimeconate or Tart., 1 oz. @ 19/– oz.
Morphinæ Diacetyl., 4 oz. @ 22/– oz.; 1 oz. @ 22/6 oz.; Hydrochlor., 6d. per oz. less
Myrrb, Gum, English Ground, 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.

Naphthalene, Flake, 7 lbs. @ 7½d. lb.
Nux Areca, 1 cwt. @ 55/– cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 80/– cwt.; 7 lbs. @ 9½d. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/1 lb.
Ol. Anetbi Ang. B.P., 1 lb. @ 30/– lb.
Ol. Anisi, E.1., 66 lbs. @ 3/8 lb.; 16½ lbs. @ 4/– lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.
Ol. Aurant., 12 lbs. @ 9/6 lb.; 1 lb. @ 10/3 lb.; not guaranteed absolutely pure.
Oil of Bays, genuine W.I., 1 lb. @ 14/6 lb.
Ol. Cajuput., B.P., 21½ oz. bots. @ 4/9 lb.
Ol. Camphor. Essent., White, 40 lbs. @ 8½d. lb.; Brown, 40 lbs. @ 120/– cwt.
Ol. Caryoph. Ang., B.P., 9 lbs. @ 6/3 lb.; 4½ lbs. @ 6/6 lb.
Ol. Cassiæ, 16 lbs. @ 4/6 lb.; 6 lbs. @ 4/9 lb.
Ol. Cinnam., 1 lb. @ 32/– lb.; 1 oz. @ 2/3 oz.
Ol. Citronellæ, 9 lbs @ 2/3 lb.
Ol. Coco Nucis, finest White, 80 lbs. @ 57/– cwt.; 40 lbs. @ 60/– cwt.
Ol. Eucalypt., P.B., 1 cwt. @ 2/8 lb.; 28 lbs. @ 2/9 lb.; 9 lbs. @ 2/10½ lb.
Ol. Geranii Gall. Opt., 1 lb. @ 28/– lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/– lb.
Ol. Gynocardiæ, 5 lbs. @ 4/– lb.; 1 lb. @ 4/3 lb.
Ol. Juniperi Ligne Exot., 9 lbs. @ 4/6 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 15/6 lb.; 1 lb. @ 16/6 lb.
Ol. Menth. Pip. English, 5 lbs. @ 36/6 lb.; 1 lb. @ 37/6 lb.; Hotcbkiss original bots., 21 oz. each @ 15/9 lb.; 6 bots. @ 15/6 lb.; 18 bots. @ 15/– lb.; American, 20 lbs. @ 9/3 lb.; 4½ lbs. @ 9/9 lb.; 1 lb. @ 10/6 lb.; Japanese, 60 lbs. @ 4/7 lb.; 5 lbs. @ 4/9 lb.
Ol. Morrhuæ, 1915, finest non-freezing, 2-gall. tins @ 23/6 per gall.
Ol. Myrbane, 9 lbs. @ 3/– lb.
Ol. Myristicæ, 7 lbs. @ 5/– lb.; 1 lb. @ 5/6 lb.
Ol. Nucis Pallid., 2 gall. tins @ 7/6 gall.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 5/2 gall.; 2 gall. tins @ 6/6 gall.
Ol. Origani Rub., Coml., 28 lbs. @ 2/– lb.; 9 lbs. @ 2/3 lb.
Ol. Peacb Kernel (so-called), 1 cwt. @ 1/6½ lb.; 56 lbs. @ 1/7½ lb.; 9 lbs. @ 1/9½ lb.
Ol. Pulegii B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10.
Ol. Ricini Alb. Opt. Medicinal, 44 lbs. @ 75/– cwt.; 9 lbs. @ 10 l. lb.; for export, 1 cwt. drums recommended.
Ol. Rosmarini, Coml., 28 lbs. @ 1/9 lb.; 9 lbs. @ 2/– lb.; B.P., 9 lbs. @ 2/7 lb.; 1 lb. @ 2/11 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 37/– lb.; 1 lb. @ 37/6 lb.
Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lb. @ 4/5 lb.
Ol. Theobromæ, B.P., 8-oz. tabs., 28 lbs. @ 2/11 lb.; 7 lbs. @ 3/– lb.
Ol. Wintergreen, Artificial, 5 lbs. @ 15/6 lb.; 1 lb. @ 16/– lb.
Opium Turc. B.P., 14 lbs. @ 36/6 lb.; 3 lbs. @ 37/6 lb.; 1 lb. @ 38/6 lb.; powder, 6d. lb. extra.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms Net Cash with Order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.
Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

DR. J. COLLIS BROWNE'S CHLORODYNE

Revised Prices and Terms:

OCTOBER 1915.

Size	1/3	3/-	5/-	12/-
Minimum Retail Price	1/2	2/10	4/9	11/6
PRICE TO TRADE (Per Dozen)	**11/9**	**29/6**	**48/9**	**117/6**

Discount: 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms.

Dr. J. Collis Browne's Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JULY 22, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED the MONEY is TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. **Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London."** (Three words counted as two.)

Summer Issue—Next Week

Owing to the extra work in connection with the Summer Issue of July 29, it will be necessary to put next week's Supplement to press earlier than usual. Will firms please note, therefore, that the Publisher cannot guarantee the insertion of any advertisement in the Supplement received after

FIRST POST ON THURSDAY, JULY 27.

Later announcements will be inserted in the Supplement of August 5.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—KENT (Suburban).—Middle-class Retail and Dispensing Business; no N.H.I.; returns £900; *net profit* £249; comfortable residence; moderate rental; price £275 on entry and balance, £175, by instalments; full investigation courted.

2.—LONDON, S.W.—Established Business, Retail and Dispensing; held by vendor many years; returns £1,000 yearly; *profits above the average of retail trade*; capital opening for modern trading; terms, value of stock and fixtures.

3.—SURREY (Rising Town).—Good middle-class Busiuess, with Optical connection; returns between £2,200 and £2,500 yearly; *excellent profits*; attractive shop, situate in one of the principal streets; valuation terms.

4.—HIGHGATE (Near).—For immediate Disposal, a good but neglected Business, returning under Assistant £1,270, at fair prices; books audited by accountant and stock taken annually; terms, small goodwill and valuation of stock and fixtures.

5.—CITY (10 Minutes from).—Ready-money Business; capable of extension; returns between £900 and £1,000; *good profits, above the average*; very moderate price will be accepted, say about £325.

6.—BRIXTON.—By order of the Trustee, well-established Business, Retail and Dispensing; returns, present rate, £16 weekly; this sum could be materially increased under energetic management; to effect a speedy transfer no reasonable offer will be refused.

7.—KENT (Few Miles Out).—Good-class Business, Retail and Dispensing; returns £700; *net profit about one-third*; roomy house, with garden and side entrance; price £450.

8.—BANKS OF THE THAMES.—Very old-established Business, chiefly ready money; returns £1,100, increasing; *net profit over* £300; good residence, with garden; about £950 required.

9.—BOURNEMOUTH.—Retail and Dispensing Business; position unique; returns upwards of £2,500 yearly; terms, valuation of stock and fixtures; references will facilitate business.

10.—LANCS (Main Marketing Thoroughfare).—Ready-money Business, with excellent Optical connection; returns £1,370, *yielding about* £600 *net profit*; valuation of stock and fixtures and sum for goodwill to be arranged equitably.

11.—NORTH-WEST OF ENGLAND.—Mixed Country Business, with own Proprietaries in good demand; steadily increasing returns, now about £2,850; terms, valuation of stock and fixtures and sum for goodwill to be agreed.

12.—WESTERN COUNTY (Large Town).—For immediate Disposal, through ill-health, good-class Retail and Dispensing Business; returns £1,350; good residence, with garden attached; vendor will accept any reasonable offer.

13.—BRISTOL CHANNEL (Seaport).—Thoroughly sound Retail and Dispeusiug Business, in busy main thoroughfare; returns £1,500 yearly; excellent premises; vendor is desirous of taking up au appointment, aud for a quick sale will accept the value of stock and fixtures.

14.—SOUTH OF ENGLAND.—Unopposed Business; established many years; returns about £850; *net profit exceeds* £250; exceptionally good residence, with garden and outbuilding; price £400; this is much below market value.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS

SMALL BRANCH in Lancashire seaside town, now returning £250; can be doubled by personal attention; centre of 6,000 to 7,000 population; unopposed; price £50.

£1,000 returns.—WEST.—First-class Light Retail and Dispensing; exceptional chance; well recommended by Wholesale houses; valuation about £800.

Valuations conducted upon the shortest notice at moderate fees.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

KNIGHT & PARTNERS, Ld.

AUCTIONEERS,

Hold a weekly auction sale for miscellaneous articles of every description. Write for particulars.

27 OLD QUEEN STREET, LONDON, S.W.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—BANKS OF THE THAMES (Death Vacancy).—Good-class Chemist's Business, with Optics; returns last year over £1,850; fine position; modern, well-fitted shop, fully stocked; good house; low rent; price about £1,000, bare valuation; strongly recommended.

2.—N. WALES (Death Vacancy).—Good Family Retail and Dispensing, in popular health resort; returns £500; no sidelines; plenty of scope; low rent; large shop; fine position; same hands 20 years; price £200, or valuation.

3.—EASTERN COUNTY.—Unopposed Country Retail and Agricultural; returns £830; net profit £200; nearest Chemist 7 miles; very good house, bathroom, etc., large garden; family reasons sole cause of sale; price £400.

4.—SUSSEX COAST (Rising Town).—Well-established Light Retail Business, in good unopposed position; returns about £650; scope for increase; net profit £180; splendid house, nice garden; price only £275.

5.—MIDLANDS (Death Vacancy).—Light Family Retail and Agricultural, in pleasant market town; easy hours; returns £900; net profit £300; good opening for Photo and Optics; one other Chemist; price £425, or first reasonable offer.

6.—LONDON (Near City).—Quick Cash Retail Business, in busy marketing centre; returns about £2,000; excellent profits; smart, up-to-date Pharmacy, fully stocked; price £950; part can remain.

7.—WESTERN SUBURB (Growing Locality).—Light Retail, Dispensing and Prescribing; returns £528, increasing; modern, double-fronted shop, good stock; convenient house; price £300.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 135 of the *C. & D. Diary* for this year. Have you read it?

PARSON C. BAKER

Pharmaceutical Chemist,

TRADE VALUER AND TRANSFER AGENT.

Recommended by British Drug Houses, Ltd.: Meggeson & Co.; Barclay & Son.

Tel. No.: FINCHLEY 812.

VALUATIONS, ESTIMATIONS, EXAMINATIONS, AND FULL REPORTS, Town or Country, on moderate terms.

No charge whatever to vendors or purchasers except by agreement.

Personal Attention to every detail.

40 years' Valuation experience.

CORRESPONDENCE INVITED.

1 MOUNTFIELD RD., CHURCH END, FINCHLEY, N.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

HALIFAX, Skircoat Green.—Established 5 years, growing district, will Sell for valuation by agreed Valuer; stock and fixtures about £300; returns growing yearly. Apply, 341 Skircoat Green Road, Halifax.

ST. ALBANS.—For immediate disposal, owing to death of the proprietor, old-established Business (over fifty years), in centre of city. Apply, H. E. Allenby, Chemist, Ripley, Surrey.

£130.—Genuine profitable little Business (unregistered) in populous working-class district of West London suburb; fine opening for N.H.I., none done near. 20/38, Office of this Paper.

ADVERTISER desires to Dispose as soon as possible of genuine unopposed Light Retail, Prescribing, and Dispensing Business; an exceptionally easily run one, with very light hours; returns about £850; profits well above the average; present hands over 10 years; satisfactory reasons for disposal; good house, garden; large, well-stocked shop; every opportunity for fullest investigation; price £400. Full particulars apply, "Southern" (124/34), Office of this Paper.

TO CHEMISTS AND DRUGGISTS.

FOR immediate Disposal, very old-established Business in South-Eastern district of London; lease about 15 years to run at £100; upper portion sub-let at £52 per annum. Present turnover £16 weekly, but could probably be increased by an energetic qualified man with a little capital. The Business is being carried on under a deed of assignment for the benefit of creditors, and in order to effect a speedy sale the Trustee would be willing to accept the nominal sum of £100 for the lease and goodwill, the stock, fixtures, and fittings to be taken in addition at a valuation, or an offer for the whole concern would be considered.

For further particulars apply, Francis Nicholls, White & Co., Chartered Accountants, 14 Old Jewry Chambers, London, E.C.

£3,000.—THROUGH family reasons, unique opportunity offers to secure good-class Country Business, within 70 miles of London, having large turnover and excellent profits; modern shop, splendid house, and fine garden; thorough introduction given; applicants must command £3,000; references required. Apply, "Excelsior" (125/38), Office of this Paper.

LEGAL.

JAMES BAKER deceased.

Pursuant to the Statute 22 and 23 Victoria Cap. 35 intituled "An Act to further amend the Law of Property and to relieve Trustees."

NOTICE IS HEREBY GIVEN that all Creditors and other persous having any claims or demands against the Estate of James Baker late of 70 Tollington Road in the County of London and 73 Farringdon Street in the City of London where he traded as Albert & Co. (who died on the fourteenth day of April One thousand nine hundred and sixteen and to whose Estate Letters of Administration with the Will annexed were granted on the Twenty-second day of June One thousand nine hundred and sixteen out of the Principal Registry of the Probate Division of the High Court of Justice to The Public Trustee) are hereby required to send particulars in writing of their claims or demands to the undersigned the Solicitors for the Public Trustee in this matter on or before the Fifteenth day of August One thousand nine hundred and sixteen after which date the Public Trustee will proceed to distribute the assets of the said deceased amongst the persons entitled thereto having regard only to the claims and demands of which he shall then have had notice and he will not be liable for the assets of the said deceased or any part thereof so distributed to any person or persons of whose claims and demands he shall not then have had notiee.

DATED this Thirteenth day of July One thousand niue hundred and sixteen.

WARD, PERKS & TERRY,
85 Gracechurch Street E.C.
Solicitors for the Public Trustee in this Matter.

IN THE MATTER OF TRADING WITH THE ENEMY AMENDMENT ACT, 1916, and in the matter of BEESWAX COMPANY, LIMITED, of 2 Rangoon Street, Crutched Friars, in the City of London.

BY an Order of the Board of Trade, under Section 1 (1) of the above-mentioned Act, dated 12th June, 1916, appointing Mr. JOHN COOPER, of the firm of Cooper, Scott & Co., Incorporated Aeeountants, of Capel House, 54 New Broad Street, in the City of London, as CONTROLLER, to Control and Supervise the carrying out of the above Order, and to conduct the winding up of the said business.

Notice is hereby given that the CREDITORS of the above-named Company are required on or before the 31st day of August, 1916, to send their names and addresses, and the particulars of their debts or claims, and the names and addresses of their Solicitors, if any, to Mr. John Cooper, of Capel House, 54 New Broad Street, in the City of London, the Controller of the said Company, and if so required by notice in writing from the said Controller are by their Solicitors, or personally, to come in and prove their said debts or claims at such time and place as shall he specified in such notice, or in default thereof they will be exeluded from the benefit of any distribution made before such debts are proved.

Notice is also hereby given that any persons owing money to, or having any property of, or goods belonging to the above-named Company, are required to notify the same forthwith to the Controller.

Dated this 17th day of July, 1916.

JOHN COOPER, Controller.

FOR SALE.

COMPLETE set of Chemist's Shopfittings: Wall Cases, Counter Cases, Mahogany Counter with Drawers at back, Wall Shelves with Drawers below, Dispensing Screen with Shelves at back, Mirror, 2 Pear-shaped Carboys, Glass Window Shelves with supports; prices greatly reduced to clear. Qualtrough, 14 Hawarden Avenue, Douglas.

NATIONAL Total-adding Till, Second-hand; prints on strip; bargain. Letters, 20 Cloudesley Road, Islington.

"NUTSHELL CANTEENS," about 6 dozen for Sale; clean, perfect; price 24*s.* dozen, carriage paid. Kirks, Chemists, Consett, co. Durham.

---

7 TUBES only of 20 Antithyroidin Tablets, corresponding to 0.5 grm., E. Merck, best offer; 3 × 1 gram. Stypticin (Merck's) 3 × 1 oz. Stypticin (Merck's), best offer; 4 lb. Magenta Aniline, 10*s.* lb.; 4 lb. Eosine, Red, 20*s.* lb.; small quantities other colours; 3 × ½ lb. Orig. Hewlett's Mist. Dam. Co., 7*s.* lb.; 2 × 1 oz. Orig. Piperazine, 18*s.* oz.; 9 lb. Pot. Oxalas, 1*s.* lb.; 1 oz. Butyl Chlorat. Hyd., 4*s.*; 2 oz. Caffein, 3*s.* oz.; 1 lb. Ol. Cassiæ, 3*s.* 9*d.* lb.; 1½ lb. Turpineol, 3*s.* 6*d.* lb.; 5 lb. Mercury, 5*s.* lb.; 1 lb. Orig. Dermatol, 16*s.*; 1¼ lb. Sodii Iod., 16*s.* lb.; 150 5-gr. Phenacetin Tabs., 7*s.* 100; 100 5-gr. Phenazone Tabs., 5*s.* 6*d.*; 1¾ Pulv. Gum Trag., 7*s.* lb.; ½ lb. Orig. B. & W. Tr. Hydrastis Conc. Hog, 20*s.* lb.; ½ lb. Orig. B. & W. Tr. Strophanthus Hog, 6*s.* lb.; 4 oz. Hyd. Iod. Rub., 1*s.* 1*d.* oz.; Orig. 100-grm. Cresote Carb., 8*s.* Stevens, Chemist, 97 Borough High Street, London, S.E.

---

25 oz. Quinine Sulph., 3*s.* 6*d.* oz.; 1 doz. botts. Aspirin Tabs. (Bayer's), 100's, 3*s.* 6*d.* each; 4 lb. Ac. Citric Xtals, 3*s.* 6*d.* lb.; 6 lb. Pot. Iodide, 14*s.* lb.; ½ doz. Albulactin, 5*s.* size, 3*s.* 6*d.* each. Apply, 124/32, Office of this Paper.

BUSINESSES WANTED.

PHARMACIST requires a Business, London or Suburbs; returns £800 to £1,200. Particulars to "T. R." (121/29), Offiee of this Paper.

PARTNERSHIPS.

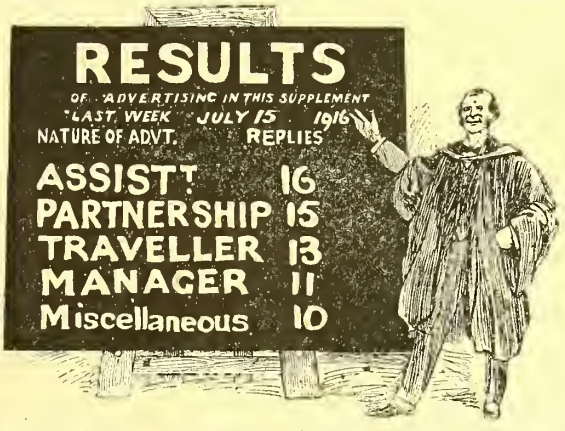
GOOD opening for capital and possibly services with a Company now formed for the manufacture of Perchlorate of Ammonia and Pernitrosil Explosive; Directorship could be arranged if desired; applicants must be prepared to come to London for interview, and initial application must state the amount of capital available, present position, and whether desirous of travelling in the interests of the Company on terms to be arranged. Apply, 20/22, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter oan in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



This Blackboard demonstrates that Advertisers using these columns get a really response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BATH.—Unqualified Assistant for Drug Department at once; no Sunday duty; high-class Dispensing and Counter work; short hours; comfortable berth. State salary, etc., to Cater, Stoffell & Fortt, Ltd., Bath.

BATH.—Assistant, ineligible, man or lady, with Pharmacy training; comfortable situation; moderate hours. 125/34, Office of this Paper.

BIRMINGHAM.—Assistant, unqualified; accurate Dispenser and obliging at Counter; good salary and hours. Apply, with full particulars, General Manager, Hedges (Chemists), Ltd., Dale End.

BRISTOL.—Qualified Manager for Light Cash Retail in pleasant suburb; good prospects; experienced Junior and lad kept. Qualified Locum also required for September 4 to 18. Please give usual particulars to C. A. Stokes, M.P.S., Chemist, Bristol.

CAMBERLEY.—Wanted early in September, outdoor Assistant with good Dispensing experience. Full particulars to F. A. Cairns, Pharmaceutical Chemist, Camberley.

CARDIFF.—Assistant wanted (outdoors), with good Counter experience. Apply, stating age, height, experience, references, and salary required, Duck & Son, Chemists, Cardiff.

CHELMSFORD.—Required at once, a good Dispenser and to assist at the Counter; total abstainer, gentlemanly; state salary, experience, and references; hours short; must be ineligible for military service. Parke's Drug Stores, Ltd., 31 High Street, Chelmsford.

DEVON (Seaside).—Wanted immediately, for small branch, a reliable, outdoors Assistant; lock-up shop; incligible; would suit lady, unqualified or elderly man. Apply, with full particulars to Gosney, Seaton, Devon.

EXETER.—Lady Dispenser wanted. State experience, references, salary required, outdoors, Milton & Son, Pharmaceutical Chemists, 265 High Street, Exeter.

GLOUCESTER.—Assistants wanted, qualified or unqualified; or lady qualified; must be a quick and accurate Dispenser, for Dispensing business. Full particulars as to age, height, salary required (outdoors), and when disengaged, to W. H. Hampton, 86 Northgate Street, Gloucester.

LANCASHIRE.—Assistant required with good practical experience in X-ray and Electro-medical work. Give fullest particulars of experience, age, etc., to 122/10, Office of this Paper.

LANCASHIRE.—Qualified Manager required for suburban business near large industrial centre; business has been well managed, and now presents an excellent opportunity for North Country man anxious to settle down; must be married, of good character, and possess energy and ability. "A. R." (121/392), Office of this Paper.

LICHFIELD.—Junior Assistant wanted, outdoors; good Dispenser. Apply, stating age, height, reference and salary required, W. Charrington, Lichfield, Staffs.

LIVERPOOL.—Junior Assistant for holidays, about six weeks; would suit Student. Apply, stating salary required (outdoors), and experience, Kennedy, 2 Park Road, Liverpool.

LONDON.—Locum for 6 weeks commence August 14; hours 8.30 a.m. till 7 p.m.; Saturdays 1 p.m.; no Sunday duty; salary £3 per week; Minor qualification preferred. Apply, Dispensing Department, Apothecaries' Hall, London, E.C.

LONDON (Central).—Outdoors; no Sunday or Bank holiday work; qualified or unqualified; ladies not eligible. Crowe & Co., 19 Air Street, Regent Street, W.

LONDON (City).—Qualified Manager required; must be over 41, have had good experience, and be able to produce undeniable references as to character and ability. "X. Y. Z." (121/390), Office of this Paper.

LONDON, E.—Lady Assistant required; permanency with good prospects to one who has had good Dispensing and some Counter experience. "B. R." (121/39), Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, N.W.—Wanted at once, unqualified Assistant (outdoors), good Dispenser; ineligible. Apply, with full particulars and salary required, to "Statim" (123/3), Office of this Paper.

LONDON, S.E.—Wanted, an elderly qualified Assistant (outdoors); short hours, and no Sunday duty. State salary required, The Prosser Roberts Co., Pharmaceutical Chemists, 323 Walworth Road, S.E.

LONDON, S.W.—Wanted, a qualified Assistant. Apply, with full particulars, to Amoore & Co., 173 Sloane Street, S.W.

LONDON, W.—Manager, qualified, for quick Cash Retail with light Dispensing; plenty of scope and good prospects, to take sole charge; must be reliable and have good references; ineligible; near Baker Street. Apply, Goodall, 66 Lower Richmond Road, Putney.

LONDON, W.—Required, an Assistant, temporary or permanent, lady or gentleman; accustomed to good-class Dispensing. Apply, with full particulars, age, experience, and salary required (outdoors), to W. A. Weston, 8 Sandringham Parade, Ealing.

MANCHESTER.—A Junior Assistant, with good experience, required in a high-class City business; must be a good Counter hand; state age, experience, and salary expected. Apply, 122/100, Office of this Paper.

MANCHESTER CHILDREN'S HOSPITAL, Pendlebury, Out-patients' Department, Gartside Street, Manchester.—Qualified Assistant Dispenser required for the duration of the war; commencing salary £75. Forms of application may be obtained from the undersigned, and must be returned on or before 3rd August.
W. M. HUMPHRY, Secretary.

MARGATE.—Assistant, outdoors (lady or gentleman), with good references, ineligible for military service, for Dispensing and Retail business for season. State particulars of experience and salary required in first application, W. M. Rosser, J. Baily & Co., 2 Ethelbert Terrace, Margate.

NEWCASTLE-ON-TYNE.—Wanted quickly, unqualified Chemist's Assistant; good Salesman. Give references, wages required, and when at liberty, to Milburns, Ltd., 95/7 Northumberland Street, Newcastle-on-Tyne.

NEWPORT, Mon.—A smart Junior required at once; must be a quick and accurate Dispenser; outdoors. Evans & Lewis, Chemists, Newport, Mon.

SOUTH COAST.—Competent Assistant wanted; ineligible; easy hours. Please apply, giving full particulars and salary required, to 123/36, Office of this Paper.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH LONDON DISPENSARY.—Wanted, Clerk-Dispenser, full time (male or female), for period of war. Write, stating age, terms, references, 121/27, Office of this Paper.

STAMFORD.—Manager, qualified, wanted for high-class Dispensing and Family business. State salary required (outdoors), Dickinson, Chemist, Stamford.

STOWMARKET.—Mr. Gostling is desirous of filling a vacancy in his Light Retail and Dispensing business, for lady or gentleman Assistant; hours light; no Sunday or Bank holiday duty; references to former Assistants if required. Apply, giving salary required, etc., to 29 Ipswich Street, Stowmarket.

WESTGATE-ON-SEA.—Unqualified Assistant, lady or gentleman, for high-class business; permanency; easy hours. Apply, stating experience, age, salary required, to C. H. Dixon, Pharmacist, Westgate-on-Sea.

WEST HAM AND EASTERN GENERAL HOSPITAL, Stratford, E.—Wanted, a qualified Assistant Dispenser (male); salary 35s. per week, with lunch and tea; applicants must be ineligible for military service. Apply, with copies of three recent testimonials, to A. W. Scrivener, Secretary.

WIGAN.—Wanted the end of August, qualified lady Dispenser. Apply, stating age, experience, salary required, and enclosing testimonials, to Dr. Graham, 13 Queen Street, Wigan.

WINCHESTER.—Wanted, qualified Dispenser for three weeks, from about August 10; no Sunday duty; state full particulars and salary required (outdoors). Apply, S. W. Joyce, 39 Fairfield Road, Winchester, Hants.

WOLVERHAMPTON.—Qualified Manager for Branch (ineligible); commence as soon as possible; live out; suit man used to manufacturing district; Light Dispensing and Retail. Send particulars to The Secretary, Lowe Ltd., 42 Dudley Road, Wolverhampton.

WORCESTER.—Assistant required, principally for Dispensing; qualification not essential. State experience, age, references, salary required, and enclose photo, Anderson & Virgo, Chemists, Worcester.

ASSISTANT wanted (male or female), if male exempt or over military age; please state salary and whether qualified or not. Apply, "F. D.," c/o Maw Son & Sons, 7-12 Aldersgate Street, E.C.

AT once, thoroughly competent Assistant for modern Light Store business, without N.H.I.; knowledge of Photography an advantage. Comfortable and permanent position for good man. State salary required and send photo if possible, with full particulars, Stead, Duke Street, Brighton.

COMPETENT Assistant required for Dispensing Counter; outdoors. Full particulars to Nathl. Smith & Co., High Street, Cheltenham.

DISPENSER (lady) required at once from 12.30 to 5 o'clock daily; salary £50 per annum. Apply, in the morning, Central London Ophthalmic Hospital, Judd Street, St. Pancras, W.C.

DISPENSER and Bookkeeper wanted by firm of Doctors; unqualified with experience will suit; time for study. Reply, stating salary required and experience, to "S.," 26 Leicester Road, Loughborough, Leicestershire.

DISPENSER with Hall qualification required for 14 days from August 1; not required on Tuesdays or Saturdays after 11 o'clock in the morning; no Sunday duty; remuneration 45s. weekly. Apply, Metropolitan Dispensary, 9 Fore Street, Cripplegate, E.C., on Monday morning at 11 o'clock precisely.

DISPENSER, lady or ineligible man; must be quick, accurate, and a good writer. Applicants please state age, height, references, salary required, and enclose photo, to Chave & Jackson, Ltd., Chemists, Hereford.

IN the Dispensary of a West-End Stores, a lady Assistant as Junior; must have had previous experience; outdoors; hours 8.45 to 6.30, Saturdays 1 o'clock; no Sunday duty. Apply, stating salary required, to Staff Superintendent, 136 Queen Victoria Street, E.C.

IMMEDIATELY.—A competent, trustworthy Assistant; accustomed to good-class business. W. Pickard, 3 West Kensington Terrace, W. (opposite West Kensington Station).

JUNIOR or Senior Assistant (ineligible), for Light Retail country trade; short hours, half-day; no Sunday duty. Full particulars, salary required, etc., 121/30, Office of this Paper.

LADY Dispenser (outdoors), wanted as Locum for August, for Medical Practice in small country town near London. Apply, stating age, experience, salary required, etc., 122/4, Office of this Paper.

LADY, middle-aged, required to take stock at Chemist's branches; experience of trade an advantage; good salary if suitable; permanency. Apply, "C. S." (120/11), Office of this Paper.

LADY, young, smart, with some Dispensing experience, to assist with Dispensing and at Counter; good suburban business. Full particulars to "E. M." (123/13), Office of this Paper.

LOCUM, qualified, to take charge of good-class Light Retail Country business in Hampshire, for two or three weeks, preferably from about end of August. Full particulars, age and terms, with recent references, to 120/33, Office of this Paper.

LOCUM, 4 weeks August, September; London, N. 22/53, Office of this Paper.

LOCUM wanted for four weeks after August 8. Apply, Garner, 204 Haverstock Hill, N.W.

MANAGER wanted for Chemist shop; must be thoroughly reliable; salary £3 10s. per week. Apply, 60 Watney Street, Commercial Road, E.

MANAGER (ineligible) for small good-class business; London suburb. Apply, "F. J. P.," British Drug Houses, Graham Street, City Road, N.

MESSRS. GRIFFITHS & CO., Chemists, Droylsden, require two unqualified Assistants, who must be ineligible for the Army. Please send full particulars with photo.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects.

QUALIFIED Manager at once (outdoors), for West-End Pharmacy. State salary and references (abstainer preferred), to 116/21, Office of this Paper.

QUALIFIED lady Pharmacist wanted for period of the war, or for at least six months, at a Hospital for Children (70 beds and out-patient department); attendance required all day, except Sundays; candidates should write fully, stating age, qualifications, past experience, and salary desired. Applications, by letter only, with not more than three testimonials (copies), to Secretary, Evelina Hospital, Southwark, S.E., or to Mr. F. A. Hocking, the Pharmaceutist, London Hospital, Whitechapel, E.

QUALIFIED (evenings and alternate Sundays); help Counter and Dispensing; suit elderly man or one engaged in Hospital; not heavy work; five minutes from Oxford Street, W. State particulars, terms, and arrange interview, 124/13, Office of this Paper.

SUNDAYS, alternate, and evenings from about 7 p.m.; West-End experience. Apply, 20/62, Office of this Paper.

THOMPSON & CAPPERS have a vacancy at their Leeds branch for an unqualified Assistant of either sex. Apply, Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED Assistant, above military age, required immediately; permanency; progressive berth; vacancy not in London. 121/391, Office of this Paper.

WANTED for West-End business, qualified Assistant, speaking French, with knowledge of Continental Pharmacy; good wages; exempted from military service. Full particulars to Box 355, Mather and Crowther, Ltd., 10/13 New Bridge Street, E.C.

WANTED, Dispenser-Chauffeur; ineligible; colliery district, South Wales; salary £2 per week, free house and light. Apply, Dr. Burke, Abertridwr, Cardiff.

WANTED, qualified Manager for 153 Dawes Road, Fulham; good references essential; N.H.I. work done; salary £3 3s. weekly; outdoors; applications from ladies would be entertained. Apply, Day, 351 Fulham Palace Road, Fulham, S.W.

WANTED, temporary help during Assistant's holiday for the first two weeks in August; hours 9 a.m. to 9 p.m.; closed 1 o'clock Wednesday; qualification not necessary. Apply, James Lloyd, 125 St. John's Hill, Clapham Junction, London, S.W.

WANTED, unqualified Junior or young lady for Counter trade and Insurance Dispensing, about August 6; middle-class Mixed business. State age, experience, references, and salary required (outdoors), "N." (123/32), Office of this Paper.

WANTED, a qualified Assistant for 9 weeks commencing July 24; hours 9 to 6 p.m.; salary £2 5s. per week. Apply, Pharmacist, West London Hospital, Hammersmith Road, W.

WANTED, qualified Assistant; Dental experience, good Extractor; salary £3 10s. indoors, £4 10s. outdoors. Apply, 125/29, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LIVERPOOL.—Clerk with experience in Wholesale Drug House; ineligible for Army. Apply, stating full particulars, Clay & Abraham, Liverpool.

ASSISTANT Manager in Manufacturing Laboratory by Wholesale Druggists. State age, experience, and salary required, to 22/43, Office of this Paper.

COUNTRY Representative to call on Hairdressers, Cutlers, etc., take over old-established connection; one not eligible for military service. Apply, in first instance, stating fully past experience and salary expected, to "A. R. D." (16/470), Office of this Paper.

ESSENCES, Oils, etc.—Man required for Warehouse, to execute Orders, attend stock, etc.; would suit man with some experience in Wholesale Drug Warehouse. Write fully, stating wages required, to William Hay, Ltd., 3 York Street, Walworth, London, S.E.

EXPERIENCED Travellers with live connection amongst Chemists and Stores required to Represent Manufacturing Perfumers. State ground covered, etc., 17/29, Office of this Paper.

FOREWOMAN for Bottling and Perfumery Department, Hairdressers and Druggists' Sundriesmen, able to control staff; must be experienced; wages 22*s.* 6*d.* to 25*s.* week, according to ability. Apply, by letter, to "Control" (16/47), Office of this Paper.

FOREWOMAN wanted for Toilet Articles, Perfumery, etc.; must be practical, experienced, and capable of controlling girls. State salary and particulars of previous employment, "M. C." (18/14), Office of this Paper.

HEAD Working Assistant in Pharmaceutical Laboratory. State age and full particulars to 22/430, Office of this Paper.

MANUFACTURING Chemist who has had experience of Varnishes, Glues, and Gelatines, required for occasional work, say about two hours weekly during day or evening. W. & G. Baird, Ltd., 10 Parson's Green, S.W.

MANUFACTURING Chemists.—Wanted for Pharmacy Laboratory of provincial Wholesale House, capable, energetic, qualified man experienced in Manufacture of Galenicals, etc., on large scale; exempt from military service. State qualifications, references and salary required, 21/19, Office of this Paper.

REPRESENTATIVE wanted to solicit Chemists in the London district. Write full particulars of age, experience, and salary required, to 122/33, Office of this Paper.

UNDER-FOREWOMAN wanted for Packed Drug trade; must be experienced; age 25 to 35. Apply before 12, Allen & Hanbury's, Ltd., Three Colts Lane, Bethnal Green, E.

USEFUL man wanted for London Laboratory, Manufacturing Chemists; capable of looking after Receipt and Despatch of Goods preferred. Apply, stating age, experience, and salary required, to 22/31, Office of this Paper.

WANTED immediately, by old-established firm of Importers and Manufacturers in Manchester, a Traveller, preferably with connection, to call upon Wholesale Chemists and Druggists' Sundriesmen; salary and commission; good prospects; must be ineligible. 17/63, Office of this Paper.

WANTED, experienced man for the Manufacture of Toilet Articles; only those having held similar post need apply; permanent position; good salary. State full particulars as to past experience, etc., to 122/1, Office of this Paper.

WANTED by a Wholesale firm, a man for Wet Counter, accustomed to putting up Ointments and heavy Lines; incligible for military service. State wages and experience 125/25, Office of this Paper.

WAREHOUSEMAN and Packer wanted; ineligible. Lever's Elver Works, Moreton Street, Manchester.

YOUNG qualified Pharmacist reqnired in Laboratories of London Manufacturing Chemists. Apply, by letter, giving fullest particulars (which will be treated with the strictest confidence) to "Synthetic" (21/36), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

CHINA.—An Assistant, accustomed to first-class Retail and Dispensing business; qualified preferred, but not essential; age 21-30; four years' agreement; good salary; passage paid out and home; must be ineligible for military service. Address, "X." (122/8), Office of this Paper.

CHINA and the Far East.—Representative of important firm of Wholesale and Export Druggists, knowing the above markets thoroughly, and now preparing for further trip in the Autumn, would be glad to hear from good-class firms with a view to Representation. "Enterprises" (22/431), Office of this Paper.

WANTED, for the Transvaal, a competent Manager, experienced in the Manufacture of B.P. Preparations, Toilet and Packed Goods. Apply, 23/20, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

ASSISTANT (23), Dispensing and Counter, desires change; eight years' experience; abstainer. State salary offered, 123/17, Office of this Paper.

ASSISTANT; ineligible for service; unqualified; Dispensing, Counter, Extractor; Nottingham or Sheffield district. "Barium" (122/2), Office of this Paper.

BY unqualified Dispenser, with 20 years' experience in large general Practice; over military age; strong and active; abstainer; good references; live out (married); salary £104 per year. Apply 123/31, Office of this Paper.

CHEMIST and Dental Assistant, used to Vulcanite work and N.H.I. Dispensing; age 30; married; ineligible; 11 years present place. G. Hamilton, 31 Buckstone Road, Edmonton.

CITY Manager, qualified, wishes relief work after 7 p.m. "Reliable," 39 Mayflower Road, Clapham.

DISENGAGED, Locum; permanency; moderate terms; good references and experience; qualified. "Statim" (123/39), Office of this Paper.

EVENINGS from 7, competent Assistant; good Dispenser and Counterman; 41; unqualified; occasional Sunday; good all-round experience; good references. "Camphor" (124/30), Office of this Paper.

EXPERIENCED Assistant requires permanency; ineligible; 32; married; unqualified; high-class Dispensing and good all-round; highest references; Yorkshire preferred, but not essential. "Genuine" (122/19), Office of this Paper.

FOR August, whole or part-time; London; unqualified; 11 years' experience. 124/2, Office of this Paper.

GENTLEMAN, qualified, age 39, well experienced, open for 2 weeks Locum Tenens from August 13 (while on vacation); seaside only. "Energy," 122 Rotherhithe New Road, S.E.

IMMEDIATELY.—Qualified Manager requires sole control; age 38; salary secondary consideration for suitable berth; disengaged any time; present business changing hands; knowledge every class business, town and country. "Chemist," 13 Queen Street, Market Rasen, Lincs.

LADY (23), with nearly 5 years' Dispensing and Counter experience in good-class trade, desires post. Apply, 121/40, Office of this Paper.

LADY Dispenser, qualified, experienced, desires post with Doctor. State particulars to 122/29, Office of this Paper.

LADY Dispenser (Hall) requires post in Institution or with Doctor; age 31; some experience; bracing climate essential. Howard, Valencia Road, Worthing.

LADY Dispenser (Hall), experienced, desires post in London; W. or S.W. preferred. Apply, 124/4, Office of this Paper.

LADY, young (Hall certificate), seeks situation, Dispenser for Doctor or Chemist in London; experienced both capacities. "A.," 53 Crofton Road, Plaistow, E.

LADY Dispenser, Hall qualification, experienced, requires post with Doctor; country town preferred. Miss Image, 67 Harcourt Terrace, Redcliff Square, S.W.

LADY Dispenser, unqualified, desires immediate re-engagement with Doctor; over six years last berth. 124/33, Office of this Paper.

LOCUM; qualified; first-class City and West-End experience; town or country; disengaged August 13. Write, "Semper paratus," 56 Crescent Lane, Clapham, S.W.

LOCUM; disengaged; good Dispenser. Edwards, Fair View, 142 North Road, Ferndale.

LOCUM; experienced, London and provinces; qualified; disengaged. "Borofax" (123/34), Office of this Paper.

LOCUM, qualified (31), willing to release Chemist August 12 to 21; prefer Harrogate or seaside; short hours. Apply, 123/7, Office of this Paper.

LOCUM, qualified, experienced, exempt from military service, desiring change, is open to book light engagements. Kindly state full particulars with remuneration offered, Withnall, 7 Deramore Street, Rusholme, Manchester.

LOCUM or otherwise; disengaged July 22. "Rhei," 37 Upper Kennington Lane.

LOCUM; permanency; disengaged; ineligible; experienced Manager; references; unregistered. "Chemicus," 89 Denmark Road, Manchester.

LOCUM; qualified; 43; disengaged 22nd; London, country. Pharmacist, 46 Gerrard Street, N.

LOCUM Tenens; disengaged July, August; middle-aged; references. "L. T.," 1 Eton Road, Newport, Mon.

LONDON Only.—Branch Manager; Assistant; over military ago; unqualified; abstainer; Front Counter; Dispensing; disengaged Sept. 4. State salary, "Hodio," 10 Alfearn Road, Clapton, N.E.

MANAGER or Partner with view to succession; qualified; first-class experience, town and country; smart Windowdresser, thoroughly competent Prescriber and Dispenser; over military age; married. Full particulars of remuneration offered, hours, etc., 125/27, Office of this Paper.

MANAGER; 48; married; experienced, reliable; shortly disengaged; increase Branch; permanency, or entertain easy succession terms; unregistered. Address, "Energy" (125/30), Office of this Paper.

MANAGER; ineligible; thoroughly expert, up-to-date Counterman and Prescriber; interest or early succession entertained; highest references; unqualified. "C." (125/39), Office of this Paper.

PART-TIME.—Lady Dispenser (Hall), disengaged up to 4 p.m.; London, suburbs. Miss L., 3 Culross Street, Park Street, W.

PERMANENCY required, competent, unqualified Assistant; married; 26; discharged; capable Managing branch; good appearance. State salary, "Tincture," 1 Dalmeny, Hamilton Road, Salisbury.

QUALIFIED Locum; free for August and September; good references; all-round knowledge. Apply, 122/14, Office of this Paper.

QUALIFIED Manager or Assistant; 35; tall; married; good-class London and South Coast experience; good references; permanency with prospects; disengaged end of September. Full particulars to "Scriptor" (121/26), Office of this Paper.

QUALIFIED and S.M.C. (26) seeks responsible position; rejected; wide experience in Pharmacy and Optics. "Pharmaceutic," 47 Molyneux Street, W.

QUALIFIED Manager or Assistant; permanency preferred; thoroughly experienced. Davies, Ty. Cwrdd, Lewyn Hendy, Llanelly.

QUALIFIED (36), seeks berth for N.H.I. Dispensing. Robinson, 141 Ribblesdale Road, Streatham Park, London, S.W.

QUALIFIED (49), good education and address, as Locum for a few weeks; would consider permanency; North or Scotland; good-class business desired. 124/26, Office of this Paper.

QUALIFIED Manager, Minor; 48; good experience Retail and Dispensing, Photography; provinces; permanency desired; good references. 124/23, Office of this Paper.

QUALIFIED (54), active, exceptional experience, knowledge of French, good Prescriber, desires Partnership or responsible position. 124/14, Office of this Paper.

QUALIFIED; elderly; single; good-class experience; reasonable hours; moderate salary; London. 124/3, Office of this Paper.

QUALIFIED (aged 48) desires position as responsible Manager, or would act as Locum for a short time; disengaged. "Chemist," 18 Lonsdale Road, Barnes.

SATURDAY evening after 5; experienced and active; South London. 121/37, Office of this Paper.

SATURDAY Help.—Qualified Chemist, engaged in City, desires engagement Saturday afternoon and evening. State terms, "M.," 46 Empress Avenue, Woodford, N.

SMART Assistant requires evening work; at liberty after 7 o'clock and all Saturdays; any capacity; unqualified. Reply, 122/15, Office of this Paper.

UNQUALIFIED; 45; Counter, Dispensing or Doctor's Dispenser. Thomas, Cumberland House, Abergele.

UNQUALIFIED Assistant (46), married, desires change; Bath or Weston-super-Mare preferred; high-class Dispensing, Counter, and Photography. Apply, stating salary, hours, etc., 123/19, Office of this Paper.

UNQUALIFIED; 42; tall; single; all-round experience; good Prescriber; permanency preferred; disengaged. "Semper" (123/38), Office of this Paper.

WAR work; unregistered; over military age; 30 years' experience; whole or part time; Dispenser and Bookkeeper to Surgeon; Dispenser and Counter Retail; would Travel for Drug or Sundries house; abstainer; reliable; London. 124/9, Office of this Paper.

YOUNG qualified Chemist seeks berth; Managership preferred; good West-End experience; London only. James, 6 Oakley Square, N.W.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ABOUT October, Ph.C., with good connection, open to Represent good House; salary and expenses. Apply, 123/4, Office of this Paper.

ADVERTISER seeks situation in Surgical Instrument firm; knowledge of Orthopædic work and Fitting, also good knowledge of Drugs and Sundries. 120/35, Office of this Paper.

EXPERIENCED Traveller of many years' standing, above military age, well known to Doctors and Chemists from Plymouth to Manchester, desires to Represent good House on part or whole of that ground. Replies to "Experienced" (113/7), Office of this Paper.

TRAVELLER; disengaged; Retail and Travelling experience; Scotland or Midlands preferred. 124/22, Office of this Paper.

TRAVELLER, qualified Chemist, requires re-engagement; experienced, energetic, successful; excellent selling record and connection with Chemists, Stores, Institutions, and general; intimate knowledge Drug, Sundries, Essence, Disinfectant, etc. trades; first-class references; ineligible Army; disengaged. 124/5, Office of this Paper.

WHOLESALE.—Aged 44; Retail experience only; disengaged. "Statim," 106 Liverpool Road, Islington.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for **12** words or less; **6d.** for every **10** words beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies, or elsewhere abroad.

DUTCHMAN (24), desires situation Chemical, Pharmaceutical Works; 6 years' practice; thorough knowledge Preparations, Laboratory Analysis; ineligible; good references. Apply, 125/10, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green.
Shares for Sale, free of commission (subject).—100 British Oil Cake Ordinary Shares, 29*s.* 4½*d.*; 50 W. B. Fordham Ordinary, 10*s.* 9*d.* c.d.; 110 A. J. White Ordinary, 5*s.* 10½*d.*; 100 G. B. Kent & Sons Preference, 16*s.* 7½*d.*; 100 Smithfield & Argentine Meat Ordinary, 24*s.* 9*d.* (last year's dividend 15 per cent., free of tax); 20 United Indigo & Chemical 3*s.* 4*d.* Ordinary Shares, 7*s.*
Shares Wanted (subject).—100 Allen & Hanbury Preference, 19*s.* 6*d.*; 100 Camwall Preference, 5*s.*; 100 Idris "A" Preference, 2*s.* 9*d.*; 100 Wright, Layman & Umney Preference, 19*s.* 3*d.*
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOP FITTINGS.—War Bargains; Mahogany and Plate Glass Sponge Case with bent top, 75*s.*; 10 ft. Mahogany and Plate Glass Serving Counter, £8; Perfumery Case and Desk, 52*s.* 6*d.*; 4 ft. Bent Counter Case, 45*s.* Write enquiries, PHILIP JOSEPH & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SAPONIFIED Cresol (Lysol), soluble in water; guaranteed to contain 50 per cent. Cresolic Acid; 3,000 gallons filled into wrought-iron 5-gallon drums to be Sold at very low price; must be cleared. Write, "Sapon," c/o Messrs. Crossley & Co., Ltd., 57 Coleman Street, E.C.

CHEMIST returning Australia wants practical Formulas, Household Articles, Perfumery, etc.; no books; strictly in confidence. State rough particulars, 125/31, Office of this Paper.

TARTARIC ACID (Powdered).

10 × 1-cwt. KEGS FOR DISPOSAL.
NOTED ENGLISH MAKE.
Price 3/2 per lb. net, cash with order, carriage paid.
MOFFAT BROS.
ARDWICK GREEN, MANCHESTER.

NOT one Chemist in each town, **BUT** every Chemist in every town should become a subscriber for **"THE STANDARD RETAIL PRICE LIST."** It includes most of the war-affected articles, and shows:
1st. The current cost.
2nd. The suggested retail price for 3i, 3ii, 3iv, 3viii, 1 oz., 2 oz., 4 oz., 8 oz., 16 oz., and, in some instances, grains.
3rd. The percentage of profit derived at these prices, according to the systems of the "Pricing Guides."
Specimen copy, post free, 6d. from
CHARLES PHILIP, Chemist, HERNE BAY.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of **1/-** for six words or less; **2d.** per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,
"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Acid. acetyl-salicylic (124/16)
Chloral hydrate, 1-lb. or ½-lb. bottles (22/40)
Cocain. hydrochlor. pur., 2 or 3 oz. (122/16)
Dialon powder (124/16)
Orthoform (124/16)
Paramidophenol, 1-lb. or ½-lb. bottles (22/40)
Pollantin (122/13)
Potass. bromid. (124/16)
Pyramidon salicylate (original ounce bottle) (122/17)
Veronal (124/16)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Amidopyrin (pyramidon), ½ lb. (122/23)
Guaiacol carb., 1 lb. (122/23)
Phenacetin (123/21), 1 lb. (122/23), and 2 lb. (123/29)
Potass. permang. (123/21)
Quinine (123/21)
Salicylic acid (123/21)
Salol, 1 lb. (122/23)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d.*

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

SHOP FITTINGS.

TWO swinging carboys, with chains and hooks; good as new; what offers? Angus, Chemist, Lancaster.

DRUGS AND CHEMICALS.

100 tabloid guaiacol carb., gr. v., 7*s.* 6*d.* Sharman, Northwood.
WHAT offers? pot. permang., 1-lb. parcels. Clegg, Chemist, South Bank, Yorks, S.O.
HERBS.—1,000 1*d.* packets, assorted, 5*s.* gross to clear; sample packet stamps 2*d.* Hagon, Chemist, Cardiff.
ONE oz. each cocaine alkaloid, cocaine hydrochlor., morph. tart., urethan, sajodin, theocin sod. acetate, chinosol, 3 oz. strychnina, acetanilido 7½ oz., bismuth sal. 8 oz., 1 lb. ol. lavand. Ang. 1901; all guaranteed pure; what offers? Sutcliffe, Chemist, Buxton.
LYSOL, amidol, metol, eikonogen, iod. pot., each 1 oz., acetanilide 1¼ oz., hydrokinone 7 drms, engallol ½ oz., sod. acetas 4 oz., acid. carb. cryst. 4 oz., sifter and mixer (Bracher's), capacity 14 lb., 2 sieves, good condition. Offers and particulars, 166 Earl's Court Road, S.W.

MISCELLANEOUS.

DOUBLE-ACTION tincture press, Maw's, cost £5, accept 30*s.* "Chemist," 18 Lonsdale Road, Barnes.
AVERY'S fine chemist's balance, No. 723, Class B, list price 135*s.*, accept 80*s.*; 35 York glass stock poison bottles, nearly new, offer invited. 'Pharmacist," 239 Roundhay Road, Leeds.
MR. GIBSON, chemist, Brigg, wishes to dispose of honeycomb sponges, which he has overbought; finest quality and shape; very cheap at 16*s.* doz.; appro.

WANTED.

WANTED, P.J.F., last edition. Willey, 40 Langham Road, Blackburn.
WANTED, Pharmaceutical Journal Formulary. S. Geary, Sparkenhoe Street, Leicester.
WANTED, acetate of soda crystals. Quantity and cash price, Chambers, Arnold, Nottingham.
WANTED, dental engine; condition not important. State lowest price, Miles, Fernhill, Charmouth.
WANTED, theocin sod. acetate and Junora wine. State price and quantity, Lund, Chemist, Scarborough.
SCREW-TOP small glass flasks and small white pill boxes. Send samples and price, 46 Cumberland Road, Acton.
WANTED, "Eureka" tab. instruction book; also punches and dies, nearest ½ in. 126/2, Office of this Paper.
WANTED, cantharides (Russian). State quantity and price, Bird & Storey, 42 Castle Street, Oxford Street, W.
WANTED, 1 or 2 gross 16-oz. (thick glass) panel bottles; no objection to name on. Particulars, 122/5, Office of this Paper.
OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.
WANTED, Gardner's patent "Rapid" sifter and mixer. State size, style, and condition, together with manufacturing number if possible, to 16/2, Office of this Paper.
WANTED, back volumes and numbers of "Chemist and Druggist," "Chemical News," "Chemical Society Journal," "The Analyst," and others; must be cheap. Offers, 112/8, Office of this Paper.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., 1 New-street Square, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*July* 22, 1916. [56]

BRUNNER, MOND & CO., LIMITED.

Crescent 

Brand.

ALKALI PRODUCTS.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

Bicarbonate of Soda.

This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda.

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali.
58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals

Caustic Soda.

Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

Bleaching Powder.

Carbonate of Ammonia

(Lump and Powder).

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.

WATER STERILISING TABLETS

AS APPROVED BY THE WAR OFFICE

Formula: Bisulphate of Soda, Saccharine, and Terpeneless Oil of Lemon.



BOTTLES OF 50 TABLETS

9/6 DOZEN

12 DOZEN for 111/-

SHOWCARDS FREE

PRODUCING A LEMON-FLAVOURED, ACIDULATED, SLIGHTLY SWEETENED, REFRESHING BEVERAGE

500 Illustrated Circulars with your name and address free with orders of 1 Gross.

The Public are sending thousands of Bottles weekly to the Men at the Front.

THE STANDARD TABLET & PILL COMPANY, LIMITED

HOVE

Printed for the Proprietors by Spottiswoode, Ballantyne & Co. Ltd., New-street Square, E.C. and Published by the Proprietors at 42 Cannon Street, in the City of London.—*July* 22, 1916.